

SEQUENCE LISTING

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CONFIRMATION COPY

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SeqID 16

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SeqID 23

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SeqID 27

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SeqID 28

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SeqID 29

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SeqID 41

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SeqID 42

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SeqID 43

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SeqID 44

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SeqID 45

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SeqID 55

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SeqID 57

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SeqID 60

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SeqID 61

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SeqID 62

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SeqID 64

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SeqID 65

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SeqID 66

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SeqID 67

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SeqID 74

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SeqID 79

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SeqID 80

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SeqID 83

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SeqID 84

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SeqID 85

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SeqID 88

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SeqID 89

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SeqID 90

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SeqID 91

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SeqID 92

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SeqID 93

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SeqID 94

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SeqID 95

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SeqID 96

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SeqID 97

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gtacatgaaa	ataaaatcct	aatagtactc	attttgtatg	tgactaatat	tccgtctcgc	240
tccagaaggt	acgaagtaaa	tagagtt				267
SeqID 122						
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SeqID 123						
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SeqID 124						
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SeqID 125						
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gccttgaaa						249
SeqID 126						
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acaatcatag	cacggagttt	tgataggta	ccttcaggct	ttttaggata	ttttttatat	240
agatattctg	aaatcaataa	ctgtagaaca	gcgtctccta	aaaattccaa	gcgttcattg	300
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SeqID 127						
ccaataggaa	aaaggaattg	taaagctgaa	tgccaatccc	accacctgct	tgaaaagcag	60

aagaccttcc	agtcaagaaa	gaccaagaga	tatggggcaa	gccccgaacc	aagatataga	120
gaatcaagga	agccaagatt	gtcaciaa				147

SeqID 128

cagccattgg	gacactcgaa	agccgaagaa	catgagacta	tctgttcgca	taccttcgat	60
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SeqID 129

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agctggattt	tatgccaaga	aaaaacctta	tttccacatg	atttggcac	tctttatcct	180
agctgcgtcc	gcacttcaat	acatcgctat	tgtttattac	atgtaaaaaa	gttgagaaat	240
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SeqID 130

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ctccataaca	atagcgaaat	tctcgtatat	agtgactatg	gacatgtgga	cctactccta	180
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SeqID 131

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SeqID 132

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SeqID 133

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accaaggcat	cactaggaat	ctgctctcct	gcagacaaac	gaatgacatc	tcctagcact	180
aattcttcag	gattaagagc	aacttcc				207

SeqID 134

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SeqID 135

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ggtaatgatg	gccgccttat	ttccaaggat	ataatcaata	gcaccggaca	aaatgggtatt	300
aacaatacca	aagtaatttc	cccatttgc				330

SeqID 136

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aatgtagtca	ctagtttcaa	ccgctactgt	accaaccaag	acaggttgac	ccttttggtg	300
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gtc						363

SeqID 137

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gataaagtca	aggcttcctc	t				81

SeqID 138

ttaagtacca	tgtccagcat	aaagtcaatc	ttgtgctctt	taccgacaca	caccattttc	60
tcaaaatcag	ccatatcacc	aaaaagagga	tccactgcca	ta		102

SeqID 139

agctgctcat	actcatctac	caactccaag	gcattgctcaa	tcgtcggttt	atcaaaacca	60
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acaatattca	tctgtgtcac	acccatctca	gcagccaagg	caattttcttc	tgcctcacga	120
cctgcaaat	cttctacatt	caagtgtgta	tgtgtatcaa	aaatcatctc	ttctaacctc	180
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cctctcttca	atagagagct	attctgctat	cttttctatc	cgatattgcc	catctcctat	300
tccacagtta	gagacagaag	agattggcta	cat			333

SeqID 140

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ttgatttcat	cctgcttgtc	cttggctgct	ttttcaatgg	catttttagc	tgattctttt	300
tcagtagcta	attgcttaga	agcttgtgat				330

SeqID 141

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tccactaacc	ataccaagag	tgacaggccg	ataaagaaa			159

SeqID 142

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agaccaacat	atttgtagca	gttt				144

SeqID 143

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ctctccgtcc	ccaaaagtcc	tatcatctct	ttcccagcga	agatggacaa	aaatcctaaa	180
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SeqID 144

actcctccat	ataccaaaat	tcctgcaaaa	acagctataa	taccatttat	ttcagctcaa	60
gatttcaacc	aagcccaacg	gctctctgga				90

SeqID 145

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SeqID 146

MDKKLLLLIDGSSVAFRAFFALYQQLDRFKNVAGLHTNAIYGFQMLSHLLERVEPSHILVAFDAGKTTFRTEMYADYKGGRA
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TIDTKAPIAIGLEDLVYSGPDVENLGKIFYDEMFKQLKQALNVSSADVSESLDFTIVDQISQDMLSEESIHFHFLFGENVHTC
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YGQTYLVDDETFFYGKGVKKAIPEREKFLHLACKLAVLVETEPILLEKLSENGQLELLYDMEQPLAFVLAKMEIAGIMVKKET
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SeqID 147

MGMAAFKNPNNQYKAITIAQTLGDDASSEELAGRYGSAVQCTEVTASNLSVTKTKATVVEKPLKDFRSTSDQSGWVESNGKW
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EAGIMKTGWFKVGPWHYYAYGSGALAVSTTTTPDGYRVNGNGEWN

SeqID 148

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PALEVYTRNRTEIQNIPTTEEIQDPTLLKNRRKIERQOQAGTRTIQYEDYIVNGNVVETKEVSRTEVAPVNEVVKVGTLVKV
KPTVEITNLTKVENKKSITVSYNLIDTTSAYVSAKTQVFGDKLVKEVDIENPAKEQVISGLDYTPYTVKTHLTYNLGENNE
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VGSTWQNGRVNNVSVNDVGDGYVITGDQYAAADVKNASTSVNDRKADRFPATKLSKDQIDAKVADYGITVTLDDTGQDLKRN
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EVKANIAEHLRKVLAMDKSINTTGDGVVEYVSEKIKNNKEAFMLGLTYMNRWYDINYGKMNTKDLSTYKDFNGNNNETSTLDT
IVALGNSGLDNLASNTVGLYANKLASVKGEDSVDFVEAYRKLFLPNKTNNEWFKENTKAYIVEMKSDIAEVREKQESPTAD
RKYSLGVDYDRISAPSWGHSMLPLLTLPESVYISSNMSTLAFGSYERYRDSVDGVILSGDALRTYVRNRVDIAAKRHRDHY
DIWYNLLDSASKEKLFERSVIVYDGFNVKDEGTGRTYWARLTDKNIGSIKEFFGPGVKWYBYNSSAGAYANGSLTHFVLDRLD
YGTSVYTHEMVHNSDSAIYFEGNGRREGLGAELYALGLLQSVDSVNSHILALNTLYKAEKDDLNRRLTYNPFERFDSDEALQS
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DDSREYKRGYTTISMFSVYAAALSNSKAPGDMFRKIAYELLAEKGYHKGFLPYVSNQYGAEAFASGSKTFSSWHGRDVAL
VTDDLVFKKVFNGEYSSWADFKAQFQIDKQDNLKPITIQYELGNPNSTKEVTITTAQMQQLINEAAAKDITNIDRATSH
TPASVWHLKQKIYNAYLRITDDFRNSIYK

SeqID 149

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VNHVPIYELFAGDGMLTRLLLKASDKAPWSDNGDAKNPALSPLGENVKTGQYFYQVALDGNVAGKEKQALIDQFRANGTQTY
SATVNVYGNKDGKPDLDNIVATKKVTININGLISKETVQKAVADNVKDSIDVPAAYLEKAKGEGPFTAGVNHVPIYELFAGDG
MLTRLLLKASDKAPWSDNGDAKNPALSPLGENVKTGQYFYQVALDGNVAGKEKQALIDQFRANGTQTYSATVNVYGNKDGK
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WSDNGDAKNPALSPLGENVKTGQYFYQVALDGNVAGKEKQALIDQFRANGTQTYSATVNVYGNKDGKPDLDNIVATKKVTIK
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MASIGFLGLALAGLLGGLGLKNKKEEN

SeqID 150

MKSITKKIKATLAGVAALFAVFAFSFVSAQESSTYTVKEGDTLSEIAETHNTTVEKLAENNHIDNIHLIYVDQELVIDGPVAP
VATPAPATYAAPAAQDETVSAPVAETPVVSETVVS TVSGSEAEAKEWIAQKESGGSYTATNGRYIGRYQLTDSYLNQDYS
QERVADAYVAGRYGSWTAAKNFWLNGWY

SeqID 151

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MATGWAKVNGSWYYLNANGSMATGWVKDGD TWYYLEASGAMKASQWFKVSDKWYYVNGLGALAVNTTVDGKVNANGEWV

SeqID 152

MKKIVLVSLAFLFVLVCGGQKKTGPATKTEKDTLQSLPVIENAEKNTVVTKTLVLPKSDDGSSQQTQTITYKDKTFLSLAIQ
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ENLLKNEPSKYISDRLANGATEQ

SeqID 153

MFEVEEWLHSLRIGLNFRLSGLGRMQQAVDLLGNPEQSYPIIHVTGTNGKGSTIAFMRELFMGHGKKVATFTSPHIVSINDRICI
NGQPIADADFIRLTDQVKEMEKTLTTPAQLSFFELLTLVAFLYFREQEVLDLVLEVGIGGLDNTNVVTGEFAVITSIGLDH
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KDYQGMGLGYLTEKLPQVELKVTGFDYQGALDERDVTGYDIVSSYREFISDFEERADAQDILLFVTGSLYFISEVRGYLLDREQI
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SeqID 154

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SEGKYVLVRLQSGEVRMILGTCTRATVGVVNGNEQHGLVNLGKAGRSRWKGIRPTVRGSMNPNDHPHGGGEGKAPVGRKAPSTP
WGKPALGLKTRNKKAKSDKLIVRRRNEK

SeqID 155

MAKKSVMAREAKRQKIVDRYAEKRAALKAAGDYEGLSKLPRNASPTRLHNRCRVTRGRPHSVYRKFGLSRIAIFRELAHKQIPG
VTKASW

SeqID 156

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SeqID 157

MVNTTEVARTTIKTEYFGSLTERMNKYREDVLNKKPYIDAERAVALATRAYERYKEQPNVLKRAYMLKEILENMTIYIEEESMIA
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VFEEERISPSQLWHALETDYAGEEGKVIQEMLIHDAPKYGNDDDYADKLVTAAVDIYVDEIAKYPNTRYGRGPIGGIYSGTS
SISANVGQGRGTLPATPDGRNAGTPLAEGCSPSHNMDQHGPSTVLKSVSKLPTDEIVGGVLLNQKVNPTLAKBEDKLLIALL
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SeqID 158

MSQAQYAGTGRRKNAVARVRLVPGTGKITVNKKDVEEYIPHADLRLVINQPFVAVTSTVGSYDVFVNIGGGYAGQSGAIRHGI
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SeqID 159

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AVYDMTQSCIEKGYEHFLITADTSTRISRIERASGFVDALTDANMRHASLTIEDKHTNLEQIKEFLQKEIDPDEKTLVFI PN
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SeqID 160

MNKGLEFEKCKYSIRKFSGLGVASVMIGAAFFGTSPVLADSVQSGSTANLPADLATALATAKENDGRDFEAPKVGEDQGSPEVT
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KKGLTVDANGNATVDLTFKDDSEKGSRFGVFLKFKDTKNNVFGYDKDGFWEYKSPSTSTWYRGSRVAAPETGSTNRLSIT
LKSDGQLNASNNDVNLFDTVTLPAAVNDHLKNEKKILLKAGSYDDERTVVSVKTDNQEGVKTEDTPAEKETGPEVDDSKVITYD
TIQSKVLKAVIDQAFPRVKEYSLNGHTLPGQVQQFNQVFINNHRITPEVYKINETTAEYLMKLRDDAHLINAEMTVRLQVV
DNQLHFDVTKIVNHNQVTPGQKIDDESLLSSISPLGNALVSVSSNQTGAKFDGATMSNNTHVSGDDHDIDVTNPMKDLAKGYM
YGFVSTDKLAAGVWSNSQNSYGGGSNDWTRLTAYKETVGNANYVGIHSSSEWQWEKAYKGI VFPPEYTKELPSAKVITEDANAD
KNVDWQDGAIAYRSIMNNPQGWEEKVKDITAYRIAMNFGSQAQNPFLMTLDGKIKINLHTDGLQGQVLLKGYGSEGHDSGHLNY
ADIGKRIGGVDFKTLIEKAKKYGAHLGIHVNASETYPESKYFNEKILRKNPDGSSYSGWNWLDQGINIDAAYDLAHLARLW
EDLKKKLGDGLDFIYVDVWNGQSGDNGAWATHVLAKEINKQGWRFALIEWGHGGEYDSTFHHWAADLTGGYTNKGINSATIR
FIRNHQKDAWVGDIYRSYGAANYPLLGGYSMKDFEGWQGRSDYNGYVTLNFAHDVMTKYFQHFTVSKWENGTPVTMTDNGSTY
KWTPEMRVELVDADNNKVVTTRKSNVDNSPQYRERTVTTLNGRVQDGSAYLTPWNWDANGKKLSTDKEKMYFNTQAGATTWT
LPSDWAKSKVLYKLTQDGKTEEQELTVKDGKITLDDLANQPYVLYRSKQTNPEMSWSEGMHIYDQGFNSGTLKHWITSGDAS
KAEIVKSQGANMMLRIQGNKEKVSILTQKLTGLKPNTKYAVYGVNDRSNKASITVNTGEKEVTTYTNKSLALNYVKAYAHNT
RRDNATVDDTTSYFQNMAYAFFTTGADVSNVTLTLSREAGDQATYFDEIRTFENNSSMYGDKHDTGKGTFFKQDFENVAQGIFFPV
VGGVEGVEDNRTHLSEKHNPYTQRGWNGKKVDDVIEGNWSLKTNGLVSRRLVYQTI PQNFRFEAGKTYRVTFEYAGSDNTY
AFVVGKGEFQSGRRGTQASNLEMHELNTWTDSKKAKKATFLVTGAETGDTWVGIIYSTGNASNTRGDSGGNANFRYNDFMMD
NLQIEEITLTGKMLTENALKNYLPTVAMTNYTKESMDALKEAVFNLSQADDDISVEERARABIAKIEALKNALVQKKTALVADD
FASLTAPAQAQEGLANAFDGNVSSLWHTSWNGGDVGKPATMVLKEPTEITGLRYVPRGSGSNGNLRDVKLVVTDSESGKEHTFT
ATDWPNNKPKDIDFGKTIKAKKIVLTGKTYGDDGDKYQSAELIFTRPQVAETPLDLSGYEAALVKAQKLTDKDNQEEVAS
VQASMKYATDNHLLTERMVEYFADYLNQLKDSATKPDAPTVEKPEFKLRLSLASEQGKTPDYKQEIARPETPEQILPATGESQS
DTALILASVSLALSALFVVVTKTKD

SeqID 161

MNKPTILRLIKYLSISFLSLVIAAIVLGGGVFFYYVSKAPSLSESKLVATTSSKIYDNKNQLIADLGSERRVNAQANDIPTDL
VKAIVSIEDHRFFDHRGIDTIRILGAFRLNLQSNLSQGGSTLTQOLIKLTYFSTSTSDQTI SRKAQEAWLAIQLEQKATKQEI
LTYIINKVMSNGNYGMQTAQNYGKDLNLSLPQLALLAGMPQAPNQYDPYSHPEAAQDRRLVLSEMKNQGYISAEQYK
AVNTPTITDGLQSLKASQNYPAYMDNYLKEVINQVEEETGYNLLTTGMDVYTNVDQEAQKHLWDIYNTDEYVAYPDDELQVAST
IVDVSNKGKVIQALGARHQSSNVSGINQAVETNRDWSGTMKPI TDYAPALEYGVYDSTATIVHDEPYNYPGTNTPVYNWDRGY
FGNITLQYALQOSRNPVAVETLNKVLNRAKTFNLGLGIDYPSIHSNAISSNTTESDKYGASSEKMAAAYAAFANGGTYK
PMYIHKVVFSDGSEKEFSNVGTRAMKETTAAYMMTDMKTVLTYGTGRNAYLAWLPQAGKTGTSNYTDEEIHNTSQQFVAPD
ELFAGYTRKYSMAVWTGYSNRLTPLVGNGLTVAKVYRSMMTYLSEGSNPEDWNIPEGLYRNGEFVFKNGARSTWNSPAPQQP
PSTESSSSSSSDSSTSTPSTNNSTTTNPNNNNTQQSNTTPDQONQNPQAPQ

SeqID 162

MSKKRRNRHKKEGQEPQDFDEAKELTVGQAIRKNEEVESGVLPEDSILDYVKQHRDEIEADKFATRYKKEEFVETQSLDD
LIQEMREAVEKSEASSEFVPSSEDIILLPLPLDDERQGLDPLLLDDENPTMTEVEVEEQNLSRLDQEDSEKSKKGFILTVLA

LVSVIICVSAYYVYRQVARSTKEIETSQSTTANQSDVDDFNTLYDAFYTDSNKTALKNSQFDKLSQLKTLDDKLEGSREHTLA
KSKYDSLATQIKAIQDVNAQFEKPAIVDGVLDTNAAKAKSDAKFTDIKTGNTELDKVLDKAIISLGKSQQTSTSSSSSSQTS
SSQASSNTTSEPKPSSSNETRSSRSEVNMGSSAGVAVQRSASRVAYNQSAIDDSNNSAWDFADGVLEQILATSRSRGYITGD
QYILERVNIVNGNGYNYLYKPDGTYLFTLNCKTGTFVNGAGHADDLDY

SeqID 163

MKLLKKMMQVALAVFFFGLLATNTVFANTTGRFVDKDNRYVYKDDHKAIYWHKIDGKTYFFGDIGEMVVGWQYILEIPGTGY
RDNLFNDQPVNEIGLOEKWYFFGQDQDGLLEQTDKQVLEAKTSENTGKVYGEQYPLSAEKRTYFFDNNAVKTGWIYEEGHWY
LNKLGNFGDDSYNPLPIGEVAKGWTQDFHVTIDIDRSKPAPWYLLDASGKMLTDWQKVNKGWYFFGSSGSMATGWKYVRGKWY
YLDNKNMGDMKTGWQYLGKWKYLLRSSGAMVTGWYQDGSWYLLDPSNGDMKIGWTKVNGKWYLLNSNGAMVTGSQTIDGKVYN
FASSGEWI

SeqID 164

MKILKKTMOVGLTVFFFGLLGSTVTFADDSEGQFVQENGRTYKKGDLKETYWRVIDGKYYYFDSLSEGMVVGWQYIIPFPSK
GSTIGPYPNGIRLEGFPKSEWYFFDKNGVLQEFVGWKTLEIKTKDSVGRKYGEKREDSSEKKEKRYTNYFFNQNSLETGWL
YDQSNWYLLAKTEINGENYLGGERAGWINDDSTWYLLDPTTGIMQTGWQYLGKWKYLLRSSGAMATGWYQEGTTWYLLDHPN
GDMKTGWQNLGNKWYLLRSSGAMATGWYQDGSWYLLNAGNGDMKTGWQFQVNGNWYAYSSGALAVNTTVDGYSVNYNGEWR

SeqID 165

MVLSKYYGVADGMNVEGRGSANFIKDNVLITAAHNYRHDYGEADDIYVLPVSPSQEPFGKIKVKEVRYLKEFRNLNSKDA
REYDLALLILEEPIGAKLGTGLPTSQKNLTGITVTITGYPSYNFKIHQMYTDDKKQVLSDDGMFLDYQVDTLEGSSGSTVYDA
SHRVGVHTLGDGANQINSVAVLNERNLPFIYSVLKGYSLGKWKINGSWYHYRQHDKQTGWQEIINDTWYLLDSSGKMLTDWQ
KVNGKWYLLNSNGAMVTGSQTIDGKVYNFASSGEWI

SeqID 166

LMKKTFFLLVLGLFCLLPLSVFAIDFKINSYQGDLYIHADNTAEFRQKIVYQFEEDFKGQIVGLGRAGKMPSGFDIDPHPKIQ
AAKNGAELADVTSEVTEADGYTVRVYNPGQEGDIVEVDLVWNLKNLLFLYDDIAELNWQPLTDSSESIEKFEFHVRGDKGAE
KLFFHTGKLFREGTIEKSNLDYTIRLDNLPAKRGVELHAYWPRTDFASARDQGLKGNRLEEFNKIEDSIVREKQSKQLVTWV
LPSILSISLILLSVCFYIYRRKTPSVKYAKNHRLYEPPMELEPMVLSAEVYSTSLEEVSPLVKGAGKFTFDQLIQATLLDVI
DRGNVSIISEGDAVGLRLVKEDGLSSFEKDCNLAFSGKKEETLSNLFADYKVSDSLRYRAKVSDEKRIQARGQLKSSFEV
LNQMGEVGRKRVSWGLPDYRPLTGGEKALQVGMGALTILPLFIGFLFLYSLDVHGYLYLPLPLGLGLVLSVFYWKLR
LDNRDGVINEAGAEVYLLWTSFENMLREIARLDQAELESIVVWNRLLVYATLFGYADKVSMLMKVHQIQVENPDINLYVAYGW
HSTFYHSTAQMASHYASVANTASTYSVSSGSGSSGGGFGSGGGGGSIGAF

SeqID 167

MKSINKFLTMLAALLLTASSLFSAAATVFAAGTTTTSVTVHKLLATDGMMDKIANELETGNYAGNKVGVLPANAKEIAGVMFVW
TNTNNEIIDENGQTLGVNIDPQTFKLSGAMPATAMKKLTEAEGAKFNTANLPAKYKIYEIHSLSSTYVGEDGATLTGSKAVPI
EIELPLNDVVDHAVYPKNTAKPKIDKDFKGKANPDTPRVDKTPVNHQVGDVVEYEIVTKIPALANYATANWSDRMTEGLAF
NKGTVKVTVDVALEAGDYALTEVATGFDLKLTDAGLAKVNDQNAEKTVKITYSATLNDKAIVEVPESNDVTFNYGNNPDHGN
TPKPNKPNENGDLTLTKTWVDATGAPIPAGAEATFDLVNAQTGKVVTTLTDDKNTVTVNGLDKNTYKFFVERSIKGYSDY
QETITAGEIAVKNWKNENPKPLDPTPEPKVVTYGGKFVKVNDKDNRLAGAEFVIANADNAGQYLARKADKVSQEEKQLVVTTKD
ALDRAVAAYNALTAQQQTQOEKEKVDKAQAAYNAAVIAANNAFEWVADKDNENVVKLVSDAQGRFEITGLLAGTYYLEETKQP
AGYALLTSRQKFEVTATSYSATGQGIETAGSGKDDATKVVNKITIPQTGGIGTIIFAVAGAAIMGLAVYAVKNNKDEDQL
A

SeqID 168

MAVMAYPLVSRLYRVESNQIADFDKEKATLDEADIDERMKLAQAFNDLSLNNVSGDPWSEEMKKKGRAEYARMLEIHERMG
HVEIPVIDVDLPVYAGTAEVQLQAGHLEGTSLPIGGNSTHAVITAHTGLPTAKMFTDLTKLVGDKFYVHNIKEVMAYQVD
QVKVIEPTNFDDLLIVPGHDYVTLTCTPYMINTHRLVGRHRIPYVAEVEEEFIAANKLSHLYRYLFYVAVGLIVILLWIIR
RLRKKKKQPEKALKAKAARKEVKVEDGQQ

SeqID 169

MSRTKLRLALLGYLLMLVACLIPYICFGQMVLQSLGQVKGHATFVKSMTTEMYQEQQNHSLAYNQRLASQNRIVDPFLAEGYEV
NYQVSDDDPAVGYLSIPSLEIMEPVYLGADYHHLGMGLAHVDGTPLPLDGTGIRSVIAGHRAEPESHVFRHLDQLKVGDALY
YDNGQEIVEYQMMDEIILPSEWEKLESVSSKNIMTLITCDPIPTFNKRLLVNFERVAVYQKSDPQTAAVARVAFTKEGQSVS
RVATSQWLYRGLVVLAFGLFVLWKLARLLRGK

SeqID 170

MKNPFFERRCRYRIRKLSVGACSLMIGAVLFAGPALAEETAVPENSANGANTELVSGESEHSTNEADKQNEGEHARENKLEKAEG
VAIASETASPASNEAATTETAEAAASAAKPEEKASEVVAETPSAEAKPKSDKETEAKPEATNQGDSEKPAABANKTEKEVQPDV
PKNTEKTLKPEIKFNSWEELLKWEPEGAREDDAINGSVVLASRRTHGLVNEKASKEAKVQALSNTNSKAKDHASVGGEFKA
YAFDYWQYLDMSVFWGLVPTPDVIDAGHRNGVPVYGTLLFFNWSNSIADQERFAEALKQDADGSFPIARKLVDMAKYGYDGY
FINQETTGDLVKPLGEKMRQFMLSKEYAAKVNHPKIYSWYDAMTYNRYHQDGLGEYNYQFMQPEGDKVPADNFFANFNWD
KAKNDYTIATANWIGRNPYDVFAGLELQGGSYKTKVKNWDILDENGKLRLSLGLFAPDTITSLGKTGEDYHKNEDIFFTGYQ
GDPTGQKPGDKDWYGIANLVADRTPAVGNTFTTSFNTGHGKKWFVDGKVSDEWNYRSVSGVLPTRWWQTSTGEKLAERYD
FTDAYNGGNSLKFSGDVAGKTDQDVRLYSTKLEVTETKTLRVAHKGKGSKVYMAFSTTPDYKFDDADAWKELTSLDNWNTNEE
FDLSSLAGKTIYAVKLFFHEGAVKDYQFNLGQLTISDNHQEPQSPTSFSVVKQSLKNAQEAFAVQFQKGNKADAFYEVYEK
GDSWKLLTGSSSTTIYLPKVSRSASAQGTQELKVAVGKNGVRSEAATTTFDWGMTVKDTSLEKPLAENIVPGATVIDSTFP

KTEGGEGIEGMLNGTITSLSDKWSSAQLSGSVDIRLTKPRTVVRVMDHAGAGGESVNDGLMNTKDFDLYYKADADGEWKLAK
VRGNKAHVTDITLDPKPIAQAQWRLNVVTSNDGTPWKAIRIYNWKMYPEKLDTESVNIPMAKAAARSLGNNKQVQGFADVPAGAT
ITVYDNPNSQTPLATLSEVGGDLASAPLDTLNQSGLLYYRTQLPGKEISNVLAHSVFKDDRRIKSVSLETGPKKTSYAEGED
LDLRGGVLRVQYEGGTEDELIRLTHAGVSVSGFDTHHKGQNLTLQYLGQPVNANLSVTVTGQDEASPKTILGIEVSVQEPKKD
YLVGDSLSDLSEGRFAVAYSNDTMEEHSFTDEGVEISGYDAQKTGRQTLTLHYQGHEVSFDVLVSPKAALNDEYLYKQKLAEEVA
AKNKVVYNFASSEVKEAFLKAIEAEQVLKDHETSTQDQVNDRLNKLTEAHKALNGQEKFTTEKTELDRLTGEVQELLAAPN
HPSGSALAPLLEKNKALVEKVDLSPEELTTAKQSLKDLVALLKEDKPAVFSKSTGVEVHFSNKEKTVIKGLKVERVQASAE
KKYFAGEDAHVFEIEGLDEKQDQVDSYASIVKPIEKDKKVKVFFLPEGKEAVELEAFEQTDSHVI FTAPHFTHYAFVYESA
EKPQPAKPAPQNTVLPKPTYQPTSDQKAPKLEVEQEEKVAFHRQEHENTEMLVGEQRVVIQGRDGLLRHVFEVDENGQRRLRS
TEVIQEAPEIVEIGTKVKTVPVAVATQEKPAQNTAVKSEASKQLPNTGTADANEALAGLASLGLASLALTLLRRKREDK

SeqID 171

MSITSFVKRIQDITRNDAGVNGDAQRIEQMSWLLFLKIYDSREMVWELEEEYESIPEELKWRNWAHAQNGERVLTGDELLD
FVNNKLFKELKELEITSNMPIRKTIKSAFEDANNYMKNVLLRQVINVIDEVDNSPEDRHSFNDIYEKILKDIQNAGNSGE
FYTPRAATDFIAEVLDPKLGESMADLACGTGGFLTSTLNLSSQRLKTSSEDTKKYNTAVFGIEKKAPPHLLAVTNLFLHEIDDP
KIVHGNTLEKNVREYTDDEKFDIIMNPPFGGSELETIKNNFPALRSSETADLFMAVIMYRLKENGVRGVILPDGFLFGEV
KTRLKQKLVDENLHTIIRLPHSVFAPYTGIIHTNIFFDKTKKTEETWFYRLDMPDGYKNFSKTKPMKSEHFNFPVRDWWENRE
EILEGKFYKSKSFTPSSELAELNLYNDQCDPFKEEEELNPFELIQNYQAERATLNHKIDNVLADILQLLEDK

SeqID 172

MNNTFEYDRLGVSKNASADEIKKAYRKLKSKYHPDINKEPGAEDKYKEVQAEYETLSDDQKRAAYDQYGAAGANGGFGGAGGF
GGFNGAGGFGGFEDIFSSFFGGGGSSRNPNAPRQGGDLQYRVNLTFFEEAIFGTEKEVKYHREAGCRTCNNGSGAKPGTSPVTCG
RCHGAGVINVDQTPLGMMRRQVTCDCVCHGRGKEIKYPCCTCHGTGHEKQAHSVHVKIPAGVETGQQIRLAGQGEAGFNGGPY
GDLYVVSVVEASDKFEREGTTIFYNLNLNFVQAALGDTVDIPTVHGDVELVIPEGTQTGKKFRLRSKGAPSLRGGAVGDQYVT
VNVVTPGTGLNDRQKVALKEFAAAGDLKVNPKKKGFDHDKDAFDGE

SeqID 173

MNPNLFRSVEFYQRRYHNYATVLIIPLSLLFTFILIFSLVATKEITVTSQGEIAPTSVIASIQSTSDNPILANHLVANQVVEK
GDLLIKYSSETMEESQKTALATQLQRLKQKEGLGILKQSLEKATDLFSGDEDFGYHNTFMNFTKQSHDIELGITKTNTESVNO
ANLSNSSSSAIEQEITKVQQQIGEYQELRDAIINNRLPTGNPHQSILNRYLVASQGGTQGTAEFPFLSQINQSIAGLESSI
ASLKIQQAGIGSVATYDNLATKIEVLRTQFLQTASQQQLTVENQLTELKVQLDQATQRLNNTLTSPSKGIHVHLNSEFEFGKN
RIPTGTETIAQIFPVIITDTREVLITYYVSSDYLPPLDKQGTQVRLKLEKIGNHGTIIIGQLQTIDQTPTRTEQGNLFKLTALAKL
SNEDSKLIQYGLQGRVTSVTTKKTYFDYFKDKILTHSD

SeqID 174

MSKKLNRRKKQLRNLRRAGAFSSSTVTVKVDETCKVKRAEQSASAAGKAVSKKVEQAVEATKEQAQKVANSVEDFAANLGLP
LDRAKTFYDEGIKSASDFKNWTEKELLALKGIGPATIKKLKENGIFK

SeqID 175

LISLFLGLAAAPVQADTSIADIQKRGELVVGKQDVPNFGYKDPKTGTYSGIETDLAKMVADELKVIRYVPVTAQTRGPLLD
NEQVMDIATFTITDERKKLYNFTSPYYTDASGFLVNKSAKIKKIEDLNGKTIGVAQGSITQRLITELGKKKGLKFKFVELGS
YPELITSLHAHRIDTFSVDRSILSGYTSKRALTALDDSFKPSDYGIVTKKSNTLNDYLDNLVTKWSKDGSLQKLYDRYKLKPS
SHTAD

SeqID 176

MSNLSLTTLGGVRENGKNMYIAEIGESI FVLNVGLKYPENEQLGVDVVIPNMDYLFENS DRIAGVFLTHGHADAIGALPYLLA
EAKVPVFGSELTIELAKLFVKGNDVKKFNDHFVIDENTEIDFGGTVVSFFPTTYSVPESLGIVLKTSEGSIVVTGDFKFDQT
ASESYATDFARLAEIGRDGVLALLSDSANADSNIQVASESEVRDEITQTIADWEGRIIVAAVSSNLSRIQQIFDAADKTGRRI
VLTFDIENTIVRTAIRLKLKLSLANEILLIKPKDMSRFEDHELIILETGRMGEPINGLRKMSIGRHRYVEIKDGLVYIATAPS
IAKEAFVARVENMIYQAGGVVKLITQSLHVS GHGVRDLQMLNLLQPKYLFVPVQGEYRELDHAKAAMAVGMLPERIFIPKK
GTTMAYENGDFVPAGSVSAGDILIDGNAIGDVGNVLRDRKVLSEGDGIFIVAITVNRREKKIVARARVHTRGFVYLKKSRIIL
RESSELINQTVEEYLQGGDDFDWADLKGKVRDNLTKYLFQDKRRPAILPVVMEAK

SeqID 177

MKKSTVLSLTAAVILAAYAPNEVVLADTSSSEDALNISDEKVAENKEKHENIHSAMETSQDFKEKKTAVIKEKEVSKNPV
IDNNTSNEEAKIKEENS NKSQGDYTD SFVNKNTENPKKEDKVYIAEFKDKESGEKAIKELSSLKNTKVLYTYDRIFNQSAIE
TTPDNLDKIKQIEGISSVERAQKVQPMNHNARKEIGVEEAIDYLSINAPFGKNFDGRGMVISNIDTGTDRHKAMRIDDAK
ASMRFKKEDLKGTDKNYWLSDKIPAHFNYYNGGKITVEKYDDGRDYFDPHGMHIAIGILAGNDTEQDIKNFNGIDGIAPNAQIF
SYKMYSDAGSGFAGDETFHAIEDSIKHNVDVSVSSGFTGTGLVGEKYWQAIRALRKAGIPMVVATGNYSATSSSSSWDLVA
NNHLKMTDGTGNVTRTAHEDAIAVASAKNQTVFEDKVNIGGESFYKRNIGAFFDKSKITTNEDGTKAPSKLKFVYIGKGQDQD
LIGLDRGLKIAVMDRIYTKDLNAPFKKAMDKGARAIMVNVNYYNDRNWTLPAMGYEADGTRKSQVFSISGDDGVKLWNMI
NPDKKTVEKRNKEDFKDKLEQYYPIDMESFNSNKNPVGDEKEIDFKFAPDTEKELYKEDIIVPAGSTSWGPRIDLKLPDVS
APGKNIKSTLNVINGKSTYGYMSGTSMATPIVAASTVLIRPKLEMLERPVLKNLKGDDKIDLTSLTKIALQNTARPMMDATS
WKEKSQYFASPRQQGAGLINVANALRNEVVATFKNTDSKGLVNSYGSISLKEIKGDKKYFTIKLHNTSNRPLTFKVSASAITT
DSLTDRLKLDETYKDEKSPDGKQIVPEIHPEKVKGANITFEHDTFTIGANSSFDLNAVINVGEAKNKNKFVESFIHFESVEEM
EALNSNGKKINFQPSLSMPLMGFAGNWNHEPILDKWAWEEGSRSKTLRGYDDGKPKIPGTLNKGIGGEHGIDKFNPAQVIQ
RKDKNTTSLDQNPFLFAFNNEGINAPSSSGSKIANIYPLDSNGNPQDAQLERGLTPSPVLVRSAAEGLISIVNTNKEGENQD
LKVISREHFIRGILNSKSNDAKGIKSSKLKVGWGLKWDGLIYNPRGREENAPESKDNQDPATKIRGQFEPIAEGQYFYKFKYR

LTKDYPWQVSYIPVKIDNTAPKIVSVDFSNPEKIKLITKDTYHKVKDQYKNETLFARDQKEHPEKFDEIANEVWYAGAALVNE
DGEVEKNLEVTYAGEGQGRNRKLDKDGNTIYEIKGAGDLRGKIEVIALDGSSNFTKIHRIFANQADEKGMISYVLVDPDQD
SSKYQKLGEIAESKPKNLGNGKEGSLKDDTGVVEHHHQENEESEKSSFTIDRNISTIRDFENKDLKLLIKKKFREVDFTS
ETGKRMEEDYKYDDKGNIIAYDDGTDLEYETEKLEIKSKIYGVLSPSKDGHFELGKISNVSKNAKVYGNKYSEIKAT
KYDFHSTMTFDLYANINDIVDGLAFAGDMRLFVKDNDQKKAEBIKIRMPKIKETKSEYPYVSSYGNVIELGEGDLSKNKPDN
LTKMESGKIYSDSEKQOYLLKDNIIIRKGYALKVTTYNPGKIDMLHHDGALGAEBYRRLKQMKEMGVNSIRTTNHPASEQTLQIAAEI
GRSTQSVLMSALDGFNIIRYQVFTFKMNDKGEAIDKDGNLVTDSSKLVLFGKDDKEYTGEDKFNVEAIKEDGSMFLFIDTKPVN
LSMDKNYFNPSKSNKIYVRNPEFYLRGKISDKGGFNWELRVNESVVDNYLIYGDLDHIDNTRDFNIKLNVKDGIDMDWGMKDYK
ANGFPDKVTDMDGNVYLQTYSDLNKAVGVHYQFLYDENVKPEVNIDPKGNTSIEYADGKSVVFNINDKRNNGFDGEIQEQHI
YINGKEYTSFNDIKQIIDKTLNIIKIVVKDFARNTTVKEFILNKDTGEVSELKPHRVTVTIQNGKEMSSTIVSEEDFILPVYKG
ELEKGYQFDGWEISGFEGKKDAGYVNLKSDTFIKPVFKKIEKKKEENKPTFDVSKKDNPNQVNHSQLNESHKEDLQREEH
SQKSDSTKDVATVLDKNNISSKSTTNPNKLPKTGTASGAQTLAAGIMFIVGIFLGLKKNQD

SeqID 178

MGKGHWNRKRVYSIRKFAVGACSVMIGTCAVLLGGNIAGESVYADETLITHTAEPKPEEKMIVEEKADKALETKNIVERTEC
SEPSSTEAIASEKKEDAVTPKEEKVSAPKEEKAPRIESQASNQEKPLKEDAKAVTNEEVNQMIEDRKVDNQNWFYKLNANS
KEAIKPDADVSTWKLKLDLPYDWSIFNDFDHESPAQNEGGQLNGGEAWYRKTFKLDEKDLKKNVRLTFDGVYMDSQVYVNGQLV
GHYPNGYNQFSYDITKYLQKDGRENVIHAVNKPSSRWYSGSGIYRDVTLQVTDKVHVEKNGTTILTPKLEEQQHKGKQVETE
VTSKIVNTDDKDHLEVAEYQIVERGGHAVTGLVRTASRTLKAHESTSLDAILEVERPKLWTVLNDKPALYELITRVYRDGQLV
DAKKDLFGYRYHHWTNPEGFSLNNGERIKFHGVSLHHDGALGAEBYRRLKQMKEMGVNSIRTTNHPASEQTLQIAAEI
GLLVQEEAFDWTYGGKKPYDYGRFFEKDATHEARKGEKWSDFLRTMVERGKNNPAIFMWSIGNEIGEANGDAHSLATVKRI
VKVIKDVDKTRYVTMGADKFRFGNGSGGHEKIADELDAVGFNYSIEDNYKALRAKHPKWLIIYGSETSSATFRGSYRPERELF
HSNGPERNYEQSDYGNDRVWGKTTATASWTFDRDNAGYAGQFIWGTGDIYGEPTPWHNQNQTPVKSSYFGIVDTAGIPKHDFY
LYQSQWVSVKKPMVHLLPHWNWENKELASKVADSEGKIPVRAYSNAASSVELFLNGKSLGLKTFNKKQTSQGRTYQEGANANE
LYLEWKVAYQPGTLEAIARDESGKEIARDKITTAKGPAAVRLIKEDHAIADGKDLTYIYYEIVDSQGNVPTANNLVRFLQLE
GQGQLVGVNDGEQASRERYKAQADGSWIRKAFNGKGVAVIKSTEQAGKFTLTAHSDLLKSNQVTVFTGKKEGQEKTVLGTEVI
KVQTIIEGAPEMPTTVPFVYSDGSRAERPVTWSSVDVSKPGIIVTVKGMADGREVEARVEVIALKSELVVKRIAPNTDLNSVI
KSVSYVLIDGSSVEEYEVDKWEIAEEDKAKLAIPGSRIQATGYLEGQPIHATLVVEEGNPAAPAVPTVTVGGEAVTGLTSQKPN
QYRTLAYGAKLPEVTASAKNAAVTVLQASAANGMRASIFIQPKDGGPLQTYAIFLEEAPKIAHLSLQVEKADSLKEDQTVKI
SVRAHYQDGTQAVLPADKVTFFSTSGEGEVAIRKGMLELHKPGAVTLNAEYEGAKDQVELTIQANTEKKIAQSIRPVNVVTDLE
QEPSLPATVTVYDYGKFPKTHKVTWQAIPEKELDSYQTFEVLGKVEGIDLEAKVSVVEGIVSVVEEVSVTTPIAEAPQLPES
RTYDSNGHVSSAKVAVDAIRPEQYAKEGVFTVNGRLEGTQTLTKLHVRVSAQTEQGANISDQWTGSELPLAFASDSNPSDPVE
NVNDKLISYNNQPANRWTNWNRNTPNEASVGVLFSDGSLSKRSVDNLSVGFHEDHGVGVPKSVYIEYVGVKTVPTAPKNPSFA
GNEDHVFNDSANWKPVTNLKAPQLKAGEMNHFSFDKVEYAVRIRMVKADNKRGT SITEVQIFAKQVAAAKQGQTRIQVDGF
DLANFNPDLDYDLESVDGKVPATASVSNGLATVPSVREGEPPVRVIAKAENGDI LGEYRLHFTKDKSLLSHKPVAAVKQF
RLLQVGQALELPTKVPVYFTGKDGYETKDLTVWEVEEVAENLTAKQFTVVRGVLGSNLVAEITVRVTDKLGTELSDNPNYDI
NSNQAFASATNDIDKNSHDRVLDYNDGDHSENRRWNTNWSPTSSNPEVSAGVIFRENGKIVERTVQGVKTVPTAPKNPSFA
LVLERYVGPEFEVPTYYSNYQAYDADHPFNPNPENWEAVPYRADKDIAAGDEINVTFKAIKAKAMRWRMERKADKSGVMIEMT
FLAPSELQESTQSKILVDGKELADFAENRQDYQITYKQRPKVSVEENNQVASTVVDSDGDSFPVLVRLVSESQKQVKEYRJ
HLTKEKPVSEKTAAVQEDLPKIEFVEKDLAYKTVEKDDSTLYLGETRVEQEGKVGKERIFTAINPDGSKBEKLEVEVEVPTI
RIVLVGTPKPAQEAKKPQVSEKADTKPIDSSSEASQTNAQLPSTGSAASQAAVAAGLTLLGLSAGLVVTKGKKED

SeqID 179

MAPSVVDAATYHYVNKEIISQEAKDLIQTGKPDRENEVYGLVYQKDLQLPQTGTEASVLTAFGLLTGVSLLLLIYKRKKIASVFI
VGAMGLVVLPSAGAVDPVATLALASREGVVEMEGYRYVGYLSGDLTKLGLDVLLEETSAPKGEVTVVEVETPQSITNQEQAI
TENQVVEEAPKEEAPKTEESPKKEPKSEVKPTDDTLPKVEEGKEDLSAEPAPVEEVGGEVESKPEEKVAVKPESQPSDKPAI
ESKVEQAGEPVAPREDEKAPVEPEKQPEAPEEEKAVEETPKQEESTPDTKAETVEPEKEETVNQSIQPKVETPAVEKQTEP
EEPKEVQAGEPVAPREDEQAPTAPVEPEKQPEVPEEEKAVEETPKPEDKIKGIGTKPEVVKSELNNQIDKASSVSPTDYSTA
YNALGPVLETAAGVYASEPVKQPEVNSETNKLKTAIDALNVDKTELNNTIADAKTKVKEHYSRDSWQNLQTEVTKAEKVAAN
DAKQSEVNEAVEKLTAIEKLVELSEKPIILTLTSTDKKILEREAVAKYTLENQNKTKIKSTIAELKKGEVINTVVLTDKVT
TETISAAPFNLEYKEYTLSTTMIYDRNGEETETLENQNIQLDLKKVELKNIKRTDLIKYENGKETNESLITTIIPDDKSNY
LKITSNNQKTLLAVKNIETTVNGTPVYKVTALADNLVSRADNKFEEYVHYIEKPKVHEDNVYVNFELVEAIQNDPSKI
YRLGQSMSARNVVPNGKSYITKEFTGKLLSSEGKQFAITELEHPLFNVITNATINNUNFENVEIERSGQDNIASLANMTMKS
VITNVKITGTLSGRNVAGFVNMMNDGTRIENVAFFGKLHSTSGNSHTGGIAGTNYRGIVRKAYVDATITGNKTRASLLVPI
VDYGLTLDHLIGTKALLTESVVKGIDVSNPVEVGAISKTSWPGTVSNSVSYAKIIRGEELFGSNDVDDSDYASAHIKDLY
VEGYSSGNRSFRKSKTFTKLTKEQADAKVTTFNITADKLESLSPLAKLNEEKAYSSIQDYNAEYNQAYKNLEKLPFYNKD
IVYQGNKLNKEHHLNLTKEVLSVTAMNNNEFTINLDEANKIIVHYADGTDYFNLSSSSSEGLSNVKEYTITDLGIKYTPNIVQ
DNTTLVNDIKSILESVELQSQTMYQHLNRLGDYRVNAIKDLYLEESFTDVKENLTNLITKLQVNEEHQNLDSPAARQMIARDK
EKNKAALLGLTYLNRYYGVKFGDVNIKELMLFKPDFYGEKVSVDRLIIBIGSKENNIKGSRTFADFQVLAKYTKSGNLDAI
LNYNRQLFTNIDNMNDFIDATEDHVYIAERASEVEEIKNSKHRAFDNLKRSHLRNTILPLLNDIKAHLYLISNYNAIAFGSI
ERLGKKSLEDIKDIVNKAADGYRNYDFWYRLASDNVQRLLRDAVPIWEGYNAPGGWVEKYGRYNTDKVYTPLEFFFGPMI
KYNYNGTGAYAAIYNSDDIRTDVKYVHLEMVGEYGISVYTHETHVNDRAIYLGFGHREGTDAEAYAQGMQLQTPVTGSGI
DEFGSLGINMVFKRKNDGNQWYITDPKTLKTREDINRYMKGYNDTLTLDEIEAESVISQONKDLNSAWFKKIDREYRDNNKI
NQWDKIRNLSQEEKNELNQSVDNLVDQQLMTNRNPNNGIYKPEAISYNDQSPYVGRMMGTIYGGNTSKGAPGAVSFKHNAI
RLWGYGYENGFLGYASNKYKQSKTDGESVLSDEYI IKKISNNTFNTIEEFKAYFKEVKDKATKGLTTFEVNGSSVSYDI
LLTLFKEAVKDAETLKQEANGNKTVMNNTVKLEAVYKLLQQTNSFKTSIFK

SeqID 180

MNKRLFSKMSLVTLPLALFSQSVLAEEINHFSSCKEAWANGYSIDHEGEPGYSAKLDRDHDGVACELKNAPKGAFKAKQSTA
IQINTSSATTSGWVKQDGAWYFYFDGNGNLVKNWQGSYYLKADGKMAQSEWIYDSSYQAWYYLKS DGSYAKNAWQGAYYLKS
GKMAQGEWVYDSSYQAWYYLKS DGSYARNAWQGNYYLKS DKGKMAQGEWVYDATYQAWYYLTS DGSYAYSTWQGNYYLKS DGM
AVNEWVDGGRYVVGADGVWKEVQASTASSNSNSSEYSAALGKAKSYNSLFHMSKKRMYRQLTSDFDKFSNDAAQYAIIDHLLD

SeqID 181

MKVIDQFKNKKVLVLGLAKSGESAARLLDKLGAIVTVNDGKPFEDNPAAQSLLLEGIKVITGGHPLELLDEEFALMVKNPGIP
YNNPMIEKALAKGIPVLTEVELAYLISEAPIIGITGSNGKTTTTMTIGEVLTAAQGHLLSGNIGYPASQVAQIASDKDTLVM
ELSSFQLMGVQEFHPEIAVITNLMPHTIDYHGSFSEYVAAKWNIONKMTAADFLVLFNQLDLAKDLTSKTEATVVPFSTLEKV
DGAYLEDGQLYFRGEVMAANEIGVPGSHNVENALATIIVAKLRDVNDQTIKETLSAFGGVKKHRLQFVDDIKGVKFYNDKST
NILATQKALSGFNSKVLIAGGLDRGNEFDELVPDITGLKKMVLGQSAERVKRAADKAGVAYVEATDIADATRKAYELATC
GDVVLLSPANASWDMYANFEVGRDLFIDTVAEELKE

SeqID 182

MKKKFALS FVALASVALLAACGEVKS GAVNTAGNSVEEKTIKIGFNFEESGSLAAYGTAEQKGAQLAVDEINAAGGIDGKQIE
VVDKDNKSETAEAA SVTTLVTQSKVS AVVGPATSGATAAAVANATKAGVPLISPSATQDGLTKGQDYLFITGTFQDSFQGKII
SNYVSEKLNKAKKVLYTDNASDYAKGIKSFRESYKGEI VADETFVAGDTDFQAALTKMKGKDFDAI VVPGYYNEAGKIVNQ
RGMGIDKPIVGGDGFNGEEFVQQAATAEKASNIYFISGFTTVEVSAKAKAFLDAYRAKYNEEPSTFAALAYDSVHLVANAAC
AKNSGEIKNNLAKTKDFEGVTGQTSFDADHNTVKTAYMMTMNNGKVEAAEVVKP

SeqID 183

MSILEVKNLSHGFGDRAIFEDVSFRLLKGEHIGLVGANGEGKSTFMSIVTGKMLPDEGKVEWSKYVVTAGYLDQHSVLAERQSV
RDVLRATFDELFAEARINDLYMKMAEDGADVDALMEEVGELQDRLESRDFTYLDKIDEVARALGVMDFGMDTDVTSLSGGC
RTKVLAKLLLEKPDILLDEPTNYLDAEHIDWLKRYLQNYENAFVLISHDIPFLNDVINIVYHVENQQLTRYSGDYQFQEV
YAMKKSQLEAAAYERQQKEBIADLKDFVARNKARVATRNAMMSRQKLDKMDIIELOSEKPKPSFDFKPARTPGRFIFQAKNLQI
GYDRPLTKPLNLTFRNQKVAIIGANGIGKTTLLKSLGIIISPIAGEVERGDYLELGYFEQEVEGGNRQTPLEAVWNAFFALN
QAEVRAALARCGLTTKHIESQIQVLSGGEQAKVRFCLLMNRENNVLVLDEPTNHLVDADKDELKRALKEYRGSILMVCHPEDE
YEGWIDQIWDFFNNLT

SeqID 184

MKKKNGKAKKWQLYAAIGAASVVVLGAGGILLFRQPSQTALKDEPHTLVVAKEGVSASSVLLSGTGTAKNEQYVYFDASKGDI
DEILVSVGDKVSEGOALVKYSSSEAQAAYDSASRAVARADRHNELNQARNEAASAPAPQLPAPVGGEDATVQSPTPVAGNSV
ASIDAQLGDARDARADAAAQLSKAQSQLDATTVLSTLEGTVEVNSNVSKSPGTGASQVMVHIVSNENLQVKGELSEYNLANL
VGQEVSTSKVYPDKKWTGKLSYISDYPKNNGEASPAAGNNTGSKYPYTIDVTGEVGDLDKQGFVNI EVKSKTKAILVPVSE
LVMDDSKNYVWVDEQQAQKKEVSVLGNADAENQEITSGLTNGAKVISNPTSSLEEGKEVKADEATN

SeqID 185

SETNHEIDSNFAGRLNLRAGVLDANDGIISIAGVVIGVASATTNIWIIFLSGFTAILAGAFSMAGGEYVSVSTPKDTEEA
SREKLLLDQDRELAKKSLYAAYIQNGEFTKSAQLLTNKIFLKNPLKALVEEKYIEYEEFTNPWHAAISSFVAFFLRSLPPMI
SVTIFPSDYRIPATVLIVGVALLTGYTSARLGKAPTKTAMIRNLAIGLLTMGVTFLLGQLFSI

SeqID 186

MKKKLTSLALVGAFLGLSWYGNVQAQESSGNKIHFINVQEGGSDAIILESNHGFAMVDTGEDYDFPDGSDSRYPWREGIETSY
KHLVTDVRFRRLKELGVQKLDLILVTHTHSDHIGNVDELLSTYFVDRVYLKKYSDSRITNSERLWDLNLYGYDKVLQTAAEKGV
SVIQNITQGDHAFQFGMDIQLYNYENETDSSGELKKIWDNNSNLISVVKVNGKKIYLGGLDNLVHGAEDKYGPLIGKVDL
KFNHHDHTNKSNTKDFIKNLSPLIVQTSDSL PWKNGVDSEYVNWLEKGERIERINAASKDYDATVFDIRKDG FVNISTSYKPI
PSFQAGWHKSAYGNWYQAPDSTGEYAVGWNEIEGEWYFNTGTGILLQNWKKWNHWFYLTDSGASAKNWKKIAGIWIYYFNI
ENQMEIGWIQDKEQWYYLDVDGSMKTGWLQYMGQWYFAPSGEMKMGVVKDKETWYIMDSTGVMKTGEIEVAGQHYLLEDSGF
MKQGWKKANDWYFYKTDGSRVAGWIKDKDKWYFLKENGQLLVNGKTPEGYTVDSGGAWLVDSIEKSATIKTTSHEIKESI
EVVKDLENKETSQHESVTNFSTSQDLTSSTSQSSETSVNKSESEQ

SeqID 187

MDLGPTQRGISVVSQSYINVIAGLAGSEAAQIAERGIPVKLYEMRGVKSTPQHKTDNFAELVCSNSLRGDALTNVAGLLKE
EMRRLGSVILLESAAEATRVPAAGALAVDRDGFSGMVTEKVNANHPLIEVVRDEITELPTDVTIATGELTSDALAELKIHALNDG
AGFYFYDAAAPIIDVNTIDMSKVYLKSRDYDKGEAAYLNAPMTKQEFMDFHEALVNAEEAPLSSFEKEKYFEGCMPIEVMAKRG
IKTMYLGPMPKPVGLEYPDDYTGPRDGEFKTPYAVVQLRQDNAAGSLYNI VGFQTHLKWGEQKRVFQMPIGLENAELFVRYGVME
RNSYMDSPNLLQTYRSKKQPNLFFAGQMTGVEGYVESAAAGSLVAGINAARLFKEESEAI FPETTAIGSLAHYITHADSKHFC
PMNVNFGIIELEGERIRDKKARYEKIAERALADLEEFLTV

SeqID 188

MLIGIPKBIKNNNENRVALTPAGVHSLVSRGHRVLIETNAGLGS GFTDADYQKQGAIEIVATAGEAWAAELVVKVKESSLSEYGY
LRDDLLLFTYLHMAAAPELADAMLTAKTTETVRDNQGGQLPLLVPMSEVAGRMAVQIGAHFLTKQAGGSGVLLGGVPGVPKGV
TIIGGGVVGTHAARIALGLGAQVTILDISSKRLSVLEEVFGSQIQTLMNSNFNIEASVRDADVIGAILIPGAKAPELVTDEN
VKQMRPGSVSLTLLTKVALSKQLTVQRTMNPMSMKNTVFSTMPLPISLVRLLALQSPPPMSLFLISKLWLAKDSHKQSLKMKF
CVKVLLIKVTLTLYQLLKDLIVTTLSIMI

SeqID 189

MKINKKYLAVSVAVLALSVCSYELGRHQAGQVKESNRVSYIDGDQAGQKAENLTPDEVSKREGINAEQIVIKITDQGYVTSH
 GDHYHYNGKVPYDAI ISEELLMKDPNYQLKDSIDVNEIKGGYVIKVDGKYYVYLKDAAHADNIRTKBEIKRQKQEHSHNHGG
 GSNDQAVVAARAQGRYTDDGYIFNASDI IEDTGDAYIVPHGDHYHYI PKNELSASELAAAEAYWNGKQGSRPSSSSSYNANP
 AQPRLSENHNLTVPTTYHQNGQENISSLLRELYAKPLSERHVESDGLIFDPAQITSRRTARGVAVPHGNHYHFI PYEQMSELEK
 RIARI IPLRYSRSHWVPSRPEQSPQSTPEPSPSPQAPNPQAPSNP IDEKLVKEAVRKVGDGYVFEENGVSRYI PAKDLS
 AETAAGIDSKLAKQESLSHKLGAKTDLPSDREFYNKAYDILLARIHQDILLDNKGRQVDFEALDNLLERLKDVPSSDKVLVDD
 ILAFLAPIRHPERLGPNAQITYTDDIEIQVAKLAGKYTTEDGYIFDPRDITSDEGDAYVTPHMTSHWIKKDSLSEAERAAAC
 AYAKEKGLTPSTDHQDSGNTREAKGAEAIYNRVKAACKVPLDRMPYNLQYTTVEVKNGSLI IPHYDHYHNIKFEWFDEGLYEAP
 KGYTLEDLLATVKYVVEHPNERPHSDNGFGNASDHVRKNKVQDQSKPDEDEKHEVSEPTHPESDEKENHAGLNPSADNLYKP
 STDTEETEEEAEDTTDEAIPQVENSVINAKIADAEALLEKVTDPISIRQNAMETLTGLKSSLLLGTKDNNTISAEVDSLALL
 KESQPAPIQ

SeqID 190

MKFSKKYIAAGSAVIVSLSLCAYALNQHRSQENKDNRRVSYVDGSSQSSQKSENLTDPQVSQKEGIAEQIVIKITDQGYVTSH
 GDHYHYNGKVPYDALFSEELLMKDPNYQLKDDIVNEVKGYYI I KVDGKYYVYLKDAAHADNVRTKDEINRQKQEHVKDNEK
 VNSNVAVARSQGRYTNDGYVFNPAII IEDTGDAYIVPHGGHYHYI PKSDLSASELAAAKAHLAGKNMQPSQLSYSSSTASDNN
 TQSVAKGSTSKPANKSENLSLLKELYDSPAQRYSSESGLVDFPAKII I SRTPNGVAIPHGDHYHFI PYSKLSALEEKIARMV
 PISGTGSTVSTNAKPNVSVSLGSLSSNPSSLTTSKELSSASDGYIFNPKDIVEETATAYIVRHGDHFIHYI PKSNQIQOPTLF
 NNSLATPSPSLPINPGTSHKHEEDGYGFANRI I AEDSESGFVMSHGDHNYFFKDLTTEEQIKAAQKHLSEEVKTSNGLDSI
 SSHEQDYPNAKEMKDLDDKIEEKIAGIMKQYGVKRESI VVNKEKNAI IYPHGDHHDADPIDEHKPVGIGHSHSNYELFKPEE
 GVAKKEGKNVYTGEELTNVNNLLKNSTFNQNFNFTLANGQKRVSFSFPPLEKELGINMLVKLITPDGKLVLEKVSQKVFGEVGV
 NIANFELDQPYLPQGTQFYTIASKDYPEVSYDGTFTVPTSLAYKMASQTI FYPFHAGDTYLRVNPQFAVPKGTDALVRVDFEF
 HGDAYLENNYKVGEEKLP I PKLNQGTTRTAGNKI PVTFMANAYLDNQSTYIIVEP ILEKENQTDKPSILPQFKRNKAQENLKI
 DEKVEEPTSEKVEKEKLSSETGNSTSNSTLEEVPTVDPVQEKVAKFAESYGMKLENVLFNMDGTIELYLPSSGEVI KKNMADFT
 GEAPQNGENKPSSENGKVSSTGTVENQPTENKPADSLPEAPNEKPVKPENSTDNMGLNPEGNVGS DPMPLDPALEEAPAVDPVQF
 KLEKFTASYGLGLDSVIFNMDGTIELRLPSGEVIKKNLSDLIA

SeqID 191

MKILFVAAEGAPFSKTGGLGDVIGALPKSLVKAGHEVAVILPYIDMVEAKFGNQIEDVLHFEVSVGWRRQYCGIKKTVLNGVI
 FYFIDNQYFFFRGHVYGDFFDGERFAFFQLAAIEAMERIDFI PDLHVDHYHTAMIPFLLEKEYRWIQAIEDIETVLTITHNLE
 FQQGFSEGLGDLFGVGFERYADGTLRWNNCLNWMKAGILYANRVSTVSPSYAHEIMTSQFGCNLDQILKMESGKVSIGVINGI
 DADLYNPQTDALLDYHFNQEDLSGAKAKNAKLQERVGLPVRADVPLVGIVSRLTRQKGFVVDVESLHHILQEDVQIVLLGTGI
 PAFEGAFSFWAQIYPDKLSTNITFDVKLAQEIYAACDLFLMPSRFEP CGLSQMMAMRYGTLPLVHEVGGRLDTRAFNPIEGS
 GTGFSFDNLS PYWLNWTFQTALDLYRNHPDIWRNLQKQAMESDFSWDTACKSYLDLYHSLVN

SeqID 192

MEKYFGEKQERFSFRKLSVGLVSATISSLFMSVLASSSVDAQETAGVHYKYVADSELSSEEKKQLVYDIPTYVENDDETYI
 VYKLSNQQLAELPNTGSKNERQALVAGASLAAMGILIFAVSKKKVKNKTVLHLVLVAGIGNGLVSVHALENHLLNNTDY
 ELTSGEKLPLPKEISGYTYIGYIKEGKTTSSEVSNQKSSVATPTKQKQVDYVNTVNFVDHPSTVQAIQEQTVPVSSTKPTVC
 VVEKPFSTELINPRKEEKQSSDSQQLAEHKNLETKKEKISPKETKGVNTLNPQDEVLSGQLNKPPELLYREETMETKIDFQF
 EIQENPDLAEGTVRVKQEGKLGKKEIVRIFSVNKEEVSREIVSTSTTAPSPRIVEKGTQVIKEQPETGVEHKDVQSGAI
 VEPAIQPELPEAVVSDKGEPEVQPTLPEAVVTDKGETEVQPEPDTTVSDKGEPEQVAPLPEYKGNIEQVVKPETPVEKTEQC
 PEKTEEVVPKPTETPVNPNEGTTEGTSIQEAENPVQPAEESTTNSEKVSPTDSSKNTGEVSSNPSDSTTSVGESNKPEHND
 KNENSEKTVEEVVPVNPNEGTVEGTSNQETEKPVQPAEETQTNNGSKIANENTGEVSNKPSDPSKPPVEESNQPEKNGTATKPE
 GNTTSENGQTEPEPSNGNSTEDVSTESNTSNGNEEIKQENELDPDKKVEPEKTELELRNVSDLELYSLNSGTQKQHSLEQ
 VPSNPNSYFVKVSSSFKDVLVVASISEERKNKILYKIKITAKVEKLQOEIESRYKDNFTFYLAKKGTEETNFTSFSNLVKA
 INQNPSTGYHLAASLANEVELGPDERSYIKDTFTGRLIGEKGKNYAIYNLKKPLFENLSGATVEKLSLKNVAISGKDDIGS
 LANEAQNTKIKQVHVDGVLAGEGIGGLLAKAQSSITESFSGRIINTYETTAAYNIGGMVGHLTGDKALLTKSKATVAIS
 SNTNTSDQTVGGLAGLVDRAQIQDSYAEGDINNKHFGVRVAGVAGNLWDRTSGDVRHAGSLTNVLSDVNVNTNGNAITGYHYN
 EMKVKDTFSSKANRVYNVTLVKDEVVSKESFEERGTMLDASQIASKKAEINPLILPTVEPLSTSGKKDSDFSKVAYYQAKRNI
 TYKNIEKLLPFYKATIVKYGNLVNENSLLYQKELLSAVMMKDNQVITDIVSNKQTANKLLHYKDDLSEKLDLKYQNDFAKI
 AEYSLGNTGLLYTPNQFLYDQTSIIKQVLPDLQKVDYHSEAIRKTLGISPNVKQTELYLEDQFAKTKQQLSGLKLLSADAG
 LASANPVTGEGYLVDKIRNKEALLGLTYLERWYNFSYGVNVKDLVLYHLDFFGKGNASPLDTLIELGKSGFNLLAKNNVI
 TYGISLASQHGTTDLFSTLEHYRKVFLPNTSNNDWFKSETKAYIVEEKSTIEEVKTKQGLAGTKYSIGVYDRTSATWKYRN
 VLPPLTLPLERSVVFVISTMSSLGFGAYDRYSSDHKAGKALNDVFEENARETAKRQRDHYDYWYRILDDNAREKLYRNILLYDA
 YKFGDDNTVKGATEVADFONPNPAMQHFFGPGVGNKVGHNGHAYATGDVAYVMGYRMLDKDGAITYTHEMTHDSQDIYLG
 GRRSGLGPEFFAKGLLQAPDHPDDATITINSILKHSKSDSTESRRLQVLDPTTRFNADDLKQYVHNMFDVVMLEYEGNSI
 LKLDNTQKQQLLRKVNTNEYHPDPGKNKYATNVVRNLTVEEVERLSFNDLIDNNILSSREYASGKYERNGYFTIKLFAPIIYA
 ALSNDIGTPGDLGMRRIAYELLAAGKFGDMVPIYSNQYEEEAQKQKGTINLYGKTRGLVTDDLVLKVKVFNQYHTWSEFKKA
 MYQERQDQFDRNLNKVTFNDTTPQWQTFAKKTSSVDELQKLMVAVRKDAEHNYHWNYPNDIDSEVHKLKRAIFKAYLDQI
 NDRFSSIFENKK

SeqID 193

MKINKKYLAVSVAVLALSVCSYELGRYQAGQDKKESNRVAYIDGDQAGQKAENLTPDEVSKREGINAEQIVIKITDQGYVTSH
 GDHYHYNGKVPYDAI ISEELLMKDPNYQLKDSIDVNEIKGGYVIKVGNGKYYVYLKDAAHADNIRTKBEIKRQKQERSHNHNS
 RADNAVAAARAQGRYTDDGYIFNASDI IEDTGDAYIVPHGDHYHYI PKNELSASELAAAEAYWNGKQGSRPSSSSSYNANPA
 QPRLSENHNLTVPTTYHQNGQENISSLLRELYAKPLSERHVESDGLIFDPAQITSRRTARGVAVPHGNHYHFI PYEQMSELEK
 IARI IPLRYSRSHWVPSRPEEPSPQSTPEPSPSPQAPSNP IDEKLVKEAVRKVGDGYVFEENGVSRYI PAKDLSAETAAGI

DSKLAKQESLSHKLGTKKTDLPSSDREFYNKAYDLLARIHQDILLDNKGRQVDFEALDNLLERLKDVSDDKVKLVEDILAFIAFLAF
IRHPERLGKPNQAITYTDDIEIQVAKLAGKYTTEDGYIFDPRDITSDEGDAYVTPHMTSHWIKKDSLSSEAERAAAQAYAKEKG
LTPPSTDHQDSGNTAKGAEAIYNRVKAACKVPLDRMPYNLQYTVFVKNGLIIPHYDHYHNIKFEWFDEGLYEAPKGYTLEEC
LLATVKYVVEHPNERPHSDNGFGNASDHDVQRNKGQADTNQTEKPSEKPKQTEKPEEETPREBEKPKSEKPKSPKPTPEEPEESF
EESSEEPQVETEKVEEKLREAEDLLGKIQDPIIKSNAKETLTGLKNLLFGTQDNNTIMAEAEKLLALLKESK

SeqID 194

LILSVCSYELGLYQARTVKENNRVSYIDGKQATQKTENLTPDEVSKREGINAEQIVIKITDQGYVTSHGDHYHYNGKVPYDA
IISELLMKDPNPKYKLDIEDIVNEVKGYYIKVDGKYYVYLKDAHADNVRTKEEINRQKQEHSHQREGGTPRNDGAVALARSC
GRYTTDDGYIFNASDIEDTGDAYIVPHGDHYHYIPKNELASASELAAAEAFLSGRGNLSNSRTYRRQNSDNTSRTNWVPSVSN
PGTTNTNTSNNSTNSQASQSNIDSLKQLYKLPLSQRHVESDGLVFDPAQITSRTARGVAVPHGDHYHFIPYSQMSELEER
IARIIPLRYSNHWPDSRPEQSPQPTPEPSPGPQPAPNLKIDSNSLVSQLVKRVGEGYVFEKGISRYVFAKDLPSSETVK
NLESKLSKQESVSHTLTAKKENVAPRDQEFYDKAYNLLTEAHKALFENKGRNSDFQALDKLLERLNDESTNKEKLVDDLLAFL
APITHPERLGKPNQIEYTEDDEVRIAQLADKYTTSDGYIFDEHDIISDEGDAYVTPHMGHSHWIGKDSLSDKEKVAAQAYTKE
KGILPPSPDADVKANPTGDSAAAIYNRVKGEKRIPLVRLPYMVEHTVEVKNGLIIPKHDHYHNIKFAWFDDHTYKAPNGYTL
EDLFATIKYVVEHPDERPHSNDGWNASEHVLGKKDHSDEPNKNFKADEEPVEETPAEPEVPQVETEKVEAQLKEAEVLLAKV
TDSLSKANATETLAGLRNNTLQIMDNNSIMAEAEKLLALLKGSNPSSSVSKEKIN

SeqID 195

MPVEIKTTKEIHPKIYAYTTPVTSTNEGWIKIGYTERDVTQRIKEQTHTAHIATDVLWTGDAAYTEEPDKGKTFKDHDFHHFL
SFHDVERRPKTEWFYFNGTPEKSKNLFDFKVFQHDLSGYQPGKQDYTLRQEQEEAVAKTLAYFQEHAGGKFLWNAKPRFGKTL
STYDLARRMEAVNVLIVTNRPALANSWYDDFETFIAGQTTYKFVSESDSLKSRLSRQEFGLILADDVRLAFISLQDLKGS
VYLGEHDKLKWVTLHLWDLVIDEAHEGVDTFKTDQAFNKIRNFTLHLSGTSFKALAKGDFTEEQIYNWSYADEQAQKYSW
SLEQEEENPYESLPQLNLFTYQMSQMI GEKLEKGAQIDGENIDYVFDLSEFFATDDKGKFIHEHVRNWLDTLSSNEKYPFST
KELRNLKHTFWLLERVASAKALKALLEEHPIYENYEIVLAAGDGRMSEEDDKVKLSLDLVRKAIAENDKTITLSVGQLTTG
VTIPEWTGVLMLSNLKS PALYMQAAAFRAQNPYSWSNDKNGNHRFRERAYVFDFAPERTLILFDEFANLLLVTAAGRGSATRE
ENIRELLNFFPIIAEDRAGKMVEIDAKAVLTTPRQIKAREVLKRGFMSNLLFDNISGIFQASQTVLDILNELPVEKEGKVQDS
SDLLDFSDVTVDDEGNAVVDHEIVVNQMRFLGKVKYGLGESVAELVTKDEERTQKQLVNDLSKTVSSVIVEELKADYSLKTR
ETEQIKKQITATLENEIRKNDIERKISEAHIKQELQQQLKEANDKAQDKIQEDLEKRLKENKLIHKEKLEQTLKKEVEKMP
KFIEQVEIKRVEQLKQSAQDEIRDHLRGFARTIPSFIMAYGQDTLTDNFDFAVPEHVFEYVETGITIDQFRYLDRGGQDFAGH
LFDKATFDEAIQEFRLKKKELADYFKDQKEDIFYIPPQKTNQIFTPKRVRKRMVDDLEKENPGIFDDPSKTFIDLYMKSGLY
IAELVKRLYNSNGLKEAFPNPPEERLKHILEKQVYGFAPSEIYNISTNFI FGNLSKDISRKNFVLADTIPAAKEGSIQKLVD
YFENN

SeqID 196

MKKILIVDDEKPISDIIFKNMTKEGYEVVTA FNGREALEQFEAEQPDIIILDLMLPEIDGLEVAKTIRKTSVPIMLLSAKDS
EFDKVIGLELGADDYVTKPSNRELQARVKALLRRSQMPVDGQEADSKPQPIQIGDLEIVPDAYVAKKYGEELDLTHREFEL
LYHLASHTGQVITREHLLLETVWGYDYFGDVRTVDVTVRRRLREKIEDTPSRPEYILTRRGVGYMRNNA

SeqID 197

MKKKFLAFLLLIFPIFSLGIKAETIKIVSDTAYAPFEFKDSQDYTKGIDVDIINKVAEIKGWNIQMSYPGFDAAVNAVQAGQ
ADAIMAGMTKTKEREKVFTMSDYYDTKVVIATTKSHKISKYDQLTGKTVGVKNGTAAQRFLETIKDKYGFITKTFDGTGLMN
NSLSAGAIIDAMDDKPVIEYAINQGQDLHIEMDGEAVGSFAFGVKKGSKYEHLVTEFNQALSEMKKDGSGLDKI IKKWTASSSS
AVPTTTTLAGLKAIPVKAKYIIASDSSFAFPVFQNSSNQYTGIDMELIKALAKDQGFEBITNPGFDAAISAVQAGQADGIIA
GMSVTDARKATFDFSESYYTANTILGVKESNNIASYEDLGKGTGVGVKNGTASQTFLENQSKYGYKIKTFADGSSMYDSLNTG
AIDAVMDDEPVLKYSISQGGKLTPISGTPIGETAFVKKGANPELIEFMFNGLANL KANGFEQKILD KYLASESTASTSTV
DETTLWGLLQNNYKQLLSGLGITLALALISFAIAIVIGIIFGMFSVSPYKSLRVISEIFVDVIRGIPLMILAAFIWGI PNFI
ESITGQSPINDFVAGTIALSLNAAAYIAEIVRGGIQA VPVGQMEASRSLGISYKTMRKIILPQATKLMLENFVNQFVIALK
DTTIVSAIGLVLPQTGKII IARNYQSFKMYAILAIFYLVIITLLTRLAKRLEKRI

SeqID 198

MAFESLTERLQNVFKNLRKKGKISESDVQEATKEIRLALLEADVALPVVKDFIKKVRERAVGHEVIDTLNPAQQI IKIVDEEL
TAVLGSDTAETIKSPKIPTIIMVGLQGAGKTTFAGKLANLKKKEENARPLMIAADIYRPAIDQLKTLGQQIDVPVFALGTE
VPAVEIVRQGLEQAQTNHNDYVLIDTAGRLQIDELLMNELRDVKALAQPNELLVVDAMIGQEAANVAREFNAQLEVTGVILT
KIDGDTRGGAALSVRHITGKPIKFTGTGEEKITDIETFHPRMSSRILGMGDMTLIEKASQYDEQKALEMAEKMENTFDEN
DFIDQLDQVQNMGPMDLLKMPGMANNPALQNMKVDERQIARKRAIVSSMTPEERENPDLLNPSRRRRRIAAGSGNTFVEVNK
FIKDFNQAKQLMQGVMSGDMNMMKQMGINPNNL PKNMPNMGMGMDMSALEGMMGQGGMPDLSALGGAGMPDMSQMFGGGLKKG
IGEFAMKQSMKRMANKMKKAKKKRK

SeqID 199

MSQIWTKEKFISQVQGGVIVSCQALPGEALYNEEFSLMPFMAKAALEAGAVGIRANSVRDIKAIQKVVDLP IIGI IKRDYPPQ
EPYITATMKEVDELVECGTTFVIAFDATLPRYDGLVVEFIKKIKEKYPNQLLMADVSNLDEGLYAFKSGVDFVGTLSGYTS
TSVQSDPEPDFELMKKLADFNIPVIAEGKIHYPEQLKKAYS LGVTSVVIGGAITRPKEIAQRFINVIK

SeqID 200

MRYLTAGESHGPRLTAIEGIPAGLPLTAEDINEDLRRRQGGYGRGGRMKIENDQVVF TSGVRHGKTTGAPI TMDVINKDHQK
WLDIMS AEDIEDRLSKRKITHPRPGHADLVGGIKYRFDDLNSLERSSARETTMRVAVGAVAKRLLAE LDMELIANHV VVFGG
KEIDVPENLTVAEIKQRAAQSEVSIVNQEREQEBIDYIDQIKRGGDTIGGVVETVVGVPVGLGSYVQWDRKLDARLAQAVVS

INAFKGVFGLGFEGYRKGQSVMDEILWSKEDGYTRRTNNLGGFEGGMTNGQPIVVRGVMKPIPTLYKPLMSVDIETHEPYK
ATVERS DPTALPAAGMVMEAVVATVLAQEILEKFSSDNLEELKEAVAKHRDYTKNY

SeqID 201

MVVMNRIRVSKRVEKKLAKGLVLLLEASDLENVNLKDQEVVQGGEGNFLTAYLSQQNKGLGWFIKDKVAFNQAFFETLFRK
AKEKRNAYYQDDLTAFRLFNQEGDGGGLTVLDLYGDIYAVFSWYNSYVYQIRQTISEAFRQVFPVGLGAYEKIRFKGLDYESA
HVGQAEAPDFFNVLENGVLVYQVFMNDGLMTGIFLDQHEVRGSLVDGLAMGKSLNMFSTAAFSVAAAMGGASHTTSVDLAKR
SRELSQAHFQANGLSTDEHRFIVMDVFYFYAKRKDLTYDVIIVLDPPSFARNKKQTFVAKDYHKLISQSLEILNPGGIIIA
STNAANVSRQKFTEQIDKGFAGRSYQILNKYGLPADFAYNKKDESSNYLKVISMKVSK

SeqID 202

MTKTLKRPEVLSPAGTLEKLLKVAVQYGADAVFIGGQAYGLRSRAGNFTFEQMEEGVQFAAKYGAQVYVAANVMHEGNEAGAG
EWFRLKRDIGIAAIVISDPALIMIAVTEAPGLEIHLSTQASATNYETLEFWKELGLTRVVLAREVSMEEELAEIRKRTDVEIEA
FVHGAMCISYSGRCTLSNHMSMRDANRGCSQSCRWKYDLYDMPFGKERKSLQGEIPEEFSMSAVDMSMIDHIPDMIENGVD
LKIEGRMKS IHVSTVTNICYKAAVDAYLESPEKFEAIKQDLVDEMVKVAQRELATGFYGTPESENEQLFGARRKIPEYKFVAE
VVSYYDAAQTATIRQRNVINEGDQVEFYGPGFRHFETYIEDLHDAKNKIDRAPNPMELLTIKVPQPVQSGDMVRALKEGLIN
LYKEDGTSVTVRA

SeqID 203

MNTYQLNNGVEIPVLGFGTFKAKDGEEAYRAVLEALKAGYRHIDTAAYIQNEESVQAIKDSGVPREEMFVTTKLWNSQOQTYE
QTRQALEKSIEKLGDLDYLDLYLIHWPNPKPLRENDWKTRNAEVRAMEDLYQEGKIRAGVSNFLPHHLDALLETTATIVPAV
NQVRLAPGVYQDQVAVCREKGILLEAWGPFQGGELFDSKQVQEI AANHGSVAQIALAWSLAEGFLPLPKSVTTTSRIQANLD
CFGIELSHEERETLKTIAVQSGAPRVDDVDF

SeqID 204

LSEKSRREEKLSFKEQILRDLEKVKGYDEVLEKEDAVVRTPANEPSTEELMADSLSTVEEIMRKAPTVPTHPSQGVPPASPADE
IQRETGVPSPHSPQDVPSPSPAESGSRPGPGPVRPKKLEREYNETPTRVAVSYTTAEKKAQAGPETPTPATETVDIIRDTSR
RSRREGAKPVKPKKEKKSHVKAFFVISFLVFLALLSAGGYFGYQYVLDLSPIDANSKKYVTVGIPESGNSVQEI GTTLEKAGLV
KHGLIFSFYAKYKNYTDLKAGYYNLQKSMSTEDLLKELQKGGTDEPQEPVLATLTIPEGYTLDQIAQAVGQLQGD FKESLTAE
AFLAKVQDET FISAQAVAKYPTLLESPLVKDSGARYRLEGYLFPATYSIKESTTIESLIDEMLAAMDKNLSPYYSTIKSKNLT
NELLTIASLVEKEGAKTEDRKLIAGVFYNRLNRDMPQLQSNIAILYAQGLGQNI SLAEDVAIDTNIDSPYNVYKVNGLMPGPV
DSPSLDAIESSINQTKSDNLYFVADVTEGKVVYANNQEDHNRNVAEHVNSKLN

SeqID 205

MKQERFPLVSDDEVMMLTEMPVMNLYDES DLI SNIKGEYRDKNYLEWAPIAEKPKVPIEKQVEKPKKAPLGVKKEGKSYAEVA
REEARADLKKKRSANYLTQDFSLARRHSQPSLVQRGNQPTAPFQKENPGFEVKYSQKLTQSHYILAEVHSIPTKNEEVSAPA
PKKNYDFLKKSQIYNKSKQTEQERRVAQELNLTRMTE

SeqID 206

MKKSKSKYLTLAGLVLTGTVLLSACGNSSTASKTYNYVYSSDPSSLNYLAENRAATSDIVANLVDGLLENDQYGNII PSLAED
WTVSQDGLTYTYKLRKDAKWFSTSEGEYAPVTAQDFVTGLQYAADKKSEALYLVDQSVAGLDDYITGKTSDFSTVGKALDDQ
TVQYTLVKPELYWNSKTLLATILFPVNADFLKSKGDDFGKADPSSILYNGPFLMKALVSKSAIEYKKNPNYWDKNVVDVVKL
TYYDGSQDES LERNFTAGAYTTARLFNPNSSSYEGIKEKYKNNI IYSMQNSTSYFFNFNLDKRSYNYTSKTS DIEKKSTQEA
NKNFRQAINFAFDRTSYGAQSEGKATKILRNLVVPNFVSIKGDGFGEVVASKMVNYGKEWQGINFADGQDPYYPNPEKAKA
KFAEAKKELEAKGVQFPPIHLDKTVEVTDKVGIQGVSSIKQSIESVLGSDNVVIDIQQLTSDEFSSGYFAQTAQKDYDLYHG
GWGPDYQDPSTYLDIFNTNSGGFLQNLGLEPGEANDKAKAVGLDVYTQMLEEANKQDPKRYEKYADIQAWLIDSSSLVLP
SRGGTPSLRRTVPFAAAYGLTGTKGVESYKYLKVQDKIVTTDEYAKAREKWLKEEESNKKAEELAKHVK

SeqID 207

VEQHS DVCYIFYRRERLKTIGLASICLLGLATSHVAANETEVAKTSQDTT TASSSSEQNQSSNKTQTSAEVQTNAAAHWDGD
YYVKDDGSKAQSEWIFDNYKAWFYINS DGRYSQNEWHGNYLKS GGYMAQNEWIYDSNYKSWFYLKSDGAYAHQEWQLIGNK
WYFYFKKGWYMAKSQWQGSYFLNGQGAMQNEWLYDPAYSAYFYLKSDGTANQEWQKVGKGYFYFKKGWYMARNEWQGNYYLT
GSGAMATDEVIMDGTTRYIFAASGELKEKKDLNVGWVHRD GKRYFFNNREEQVGT EHA KVIDISEHNGRINDWKKVIDENEVD
GVIVRLGYSGKEDKELAHNIKELNRLGIPYGVLYTYAENETDAESDAKQTIELIKKYNMNLSPYIYDVENWEYVYVNSKRAP
SDTGTWVKIINKYMDTMKQAGYQNVVYSYRSLQLTRLKHPDILKHVNWVAAYTNALEWENPHYS GKKGWQYTSSEYMKGIQG
RVDVSVWY

SeqID 208

MAKEPWQEDIYDQESRAERRHRNHGGADRMANRILITILASIFFVIVVMVIVLIYLSGGGNSNRATAALKGFHSDASVQISS
SSSSQPEQSSEPESTSSSSSEEAANPEGTIKVLAGEGEAAIAARAGISIAQLEALNPGHMATGSWFANPGDVIKIK

SeqID 209

MPITSLEIKDKTFGRFRGDFDPEEVDEFDLDIVVRDYEDLVANHDKNLRIKSLEERLSYFDEIKDSLSSQSVLIAQDTAERVKO
AAHERSNNI IHQAEQDAQRLLLEEAKYKANEILRQATDNAKAVAVETEELKNKSRVHFQRLKSTIESQLAIVESSDWEDILRPT
ATYLQTSDEAFKEVVSEVLGEPIPAPIEEEPIDMTRQFSQAEMAEQARIEVADKELSEFEAQIKQVEEAPTVPVSPQVEEEP
LLIQLAQCMKNQK

SeqID 210

MSLKDRFDRFIDYFTEDESSLPYEKRDEPVFTSVNSSQEPALPMNQPSQSAGTKENNITRLHARQQBELANQSQRATDKVIID
VRYPRKYEDATEIVDLLAGNESILIDFYMTQVARRCLDYLDGACHVLAGNLKKVASTMYLLTPVNVIVNVEDIRLPDEDDQ
GEFGFDMKRNVR

SeqID 211

MSDLKKYEGVIPAIFYACYDDQGEVSPERTRALVQYFIDKGVQGLYVNGSSGECIYQSVEDRKLILEFVMAVAKGKLTIIAHVA
CNNTKDSMELARHAESLGVDAIATIPPIYFRLPEYSVAKYWNDISSAAPNTDYVIYNIPLAGVALTPSLYTEMLKNPRVIGV
KNSSMPVQDIQTFVSLGGEDHIVFNGPDEQFLGGRLMGARAGIGGTYGAMPELFLKLNQLIADKDLTARELQYAINAIIIGKL
TSAHGNMYGVIKEVLKINEGLNIGSVRSPLTPVTEEDRPVVEAAAALIRETKERFL

SeqID 212

MNKRGLYSKLGISVVGISLLMGVPTLIHANELNYGQLSISPIFOGGSYQLNNKSIDISSLLLDKLSGESQTVVMKFKADKPN
LQALFGLSNSKAGFKNNYFSIFMRDSGEIGVEIRDAQKGINYLFSRPASLWGKHKGQAVENTLVFVSDSKDKTYTMYVNGIEV
FSETVDTFPLISNINGIDKATLGAVNREGKEHYLAGKSIDEISLFNKASDQEVSTIPLSNPFLIFQSGDSTQANYFRIPTL
YTLSSGRVLSSIDARYGGTHDSKSKINIATSYSDDNKGTWSEPIFAMKFNDYEEQLVYWPDRNKLKNSQISGSASFIDSSIVE
DKKSGKTIILADVMPAGIGNNNANKADSGFKEINGHYLKLKNGDNDFRYTVRENGVVYNETTNKPTNYTINDKYEVLEGGK
SLTVEQYSVDFDSGLRERHNGKQVPMNVFYKDSLKFVTPNTYIAMTTSQNRGESWEQFKLLPPFLGEXHNGTYLCPGQGLAL
KSSNRLIFATYTSSELTYLISDDSGQTKKSSASIPFKNATAEAQMVELRDGVIRTFRTTTGKIAYMTSRDSGETWSKVS
YIIGQQTSTYGTQVSAIKYSQLIDGKEAVILSTPNSRSRGRKGGQLVVLVKNKEDDSIDWKYHYDIDLPSYGYAYSATITELPNHHI
GVLFEKYDSWSRNLHLSNVVQYIDLEINDLTK

SeqID 213

MNRSVQERKCRYSIKRLSVGAVSMIVGAVVFGTSPVLAQEGASEQPLANETQLSGESSTLTDTSEKSPSSSETELSGNKQEQER
KDKQEEKIPRDYYARDLENVETVIEKEDVETNASNGQRVDLSSELDKLKLLENATVHMEFKPDAKAPAFYNLFVSSATKKDE
YFTMAVYNNATLEGRGSDGKQFYNNYNDAPLKVKGQWNSVTFTVEKPTAELPKGRVRLVYNGVLSRTSLRSGNFIKDMPDV
THVQIGATKRANNTVWGSNLQIRNLTVYNRALTPPEEVQKRSQFLFRSDLEKKLPEGAALTEKTDIFESGRNGNPNKDGIKSYR
IPALLKTDKGTIAGADERRLHSSDWGDIGMVIIRSEDNGKTWGDVTTITNLRDNPKASDPISGSPVNDMLVQDPETKRIF
SIYDMFPEGKGIIFGMSSQKEEAYKKIDGKTYQILYREGEKGAYTIRENGTVYTPDGKATDYRVVVDVVKPAYSDKGDLYKGDQ
LLGNIYFTTNKTSFPIAKDSYLWMSYSDDDGKTWSAPQDITPMVKADWMKFLGVGPGTGIVLRNGPHKGRILIPVYTTNNVS
HLDGSQSSRVISDDHGKTWHAGEAVNDNRQVDGQKIHSSTMNRRRAQNTTESTVVLNNGDVKLFRGLTGDLQVATSKDGGV
TWEKDIKRYPVQKDVVYQMSAIHTMHEGKEYIILSNAGGPKRENGMVHLARVEENGELTWLKHNP IQKEFAYNLSLQELNGE
YGILYEHETEKGQONAYTSLFRKFNWFLSKNLISPTANRDGQRRDQGRSYWLGVRLRSIGQQGSNPSIGKWNDSDFPNPVQDLV
VCSRGYRTGNWYSRKHRYASSCKSSRCSSWRSKWQSSGASSRIYRGSWYRASCNNRRVGIFACNSYKKRLYLQSSSCS
AGTSNRKQGEPPSFTRTNSFLPWSVYAREKERT

SeqID 214

MIQIGKIFAGRYRIVKQIGRGMADVYLAKDLILDGEEVAVKVLRTNYQTDPIAVARFQREARAMADLDHPHIVRTIDIGEED
GQQYLAMEYVAGLDLKYRIKEHYPLSNEEAVRIMGQILLAMRLAHTRGIVHRDLKPQNILLTPDGTAKVTDGFIJAVAFETSL
TQTNMILGSVHYLSPEQARGSKATVQSDIYAMGIIFYEMLTGHIYPYDGSASVTIALQHFQKPLPSVIAENPSVPQALENVIIK
ATAKLTNRYSRVSEMYVDLSSSLSYNRRNESKLIFDETSKADTKTLPKVQSSTLTSIPKVQAQTEHKSINKNPSQAVTEETYQ
PQAPKKHRFKMRYLILLASLVLAASLIWILSRTPATIAIPDVAGQTVAAEAKATLKKANFEIGEEKTEASEKVEEGRIIRTD
GAGTGRKEGTKINLVSSGKQSFQISNYVGRKSSDVIAELKEKKVPDNLIKIEEEESNESEAGTVLQSLPEGTTYDLSKATQ
IYLVAKKATTIQLGNYIGRNSTEVISELKQKVPENLIKIEEEESSESEPGTIMKQSPGAGTTYDVSKPTQIVLTVAKKVTS
VAMPSYIGSSLEFTKNLIIQIVGIKEANIEVVEVTTAPAGSAEGMVVEQSPRAGEKVDLNKTRVKISIIYKPKTTSATP

SeqID 215

MTKLIFMGTPDFSATVLKGLLTDDRYEILAVVTQPDRAVGRKKVIQETPVKQAAKEAGLSIYQPEKLSGSPEMEDLMKLGDG
IVTAAFGQLFLPSKLLDSMDFAVNVHASLLPRHRGGAPIHYALIQGDEEAGVTIMEMVKEMDAGDMISRRSIPITDEDNVGTLF
EKLALVGRDLLDPTLPAIYAGDIKPEPQDTSQVTFSPNIKPEEEKLDWNKTNRQLFNQIRGMNPPVPAHTFLKGRDFKIYEAL
PVEGQGNPGEILSIGKKELIVATAEGALSLKQVQAPAGPKMDIASFLNGVGRTLTVGERFGD

SeqID 216

VFRRQLQDFQLRKVKKILKQINALKGKMSLSQELVAKTVEFRQLRSEGESLDDILVEAFVVRREADKRILGMFPYDVQVMG
AIVMHYGNVAEMNTGEGKTLTATMPVYLNFAFSGEGVMVTPNEYLSKRDAEEMGQVYRFLGLTIGVPFTEDPKKEMKAEKKL
IYASDIIYTTNSNLGFDYLDNDLASNEEGKFLRPFNYVIDEIDDLDSAQTPLIAGSPRVQSNYYAIDTLVTTLVEGED
YIFKEEKEEVWLTKGAKSAENFLGIDNLYKEEHASFAHRLVYAIRAHKLFTKDKDYIIRGNEMVLVDKGTGRLMEMTKLQGG
LHQAEIAKEHVKLSPETRAMASITYQSLFKMFNKISGMTGTGKVAEKEFIETYNMSVVRIPNRPQRIDYDPNLYITLPEKV
YASLEYIKQYHAKGNPLLVFVGSVEMSQLYSSLLFREGIAHNVLNANNAAREAQISESGQMGAVTVATSMAGRGTDIKLGKG
VAELGGLIVIGTERMESQRIDLQIRGRSGRQGDPMGSKFFVSLEDDVIKKFGPSWVHKYKDYQVQDMTQPEVLKGRKYRKL
EKAQHASDSAGRSARRQTLLEYAESMNIQRDIVYKERNRILQDSRDLQEDVVDIIERYTEEVAADHYASRELLFHFIVTNISFH
VKEVPDYIDVTDKTAVRSFMKQVIDKELSEKKELLNQHDLYEQFLRLSLKKAIDDNWVEQVDYLQQLSMAIGGQSASQKNPIV
EYYQAYAGFEAMKEQIHADMVRNLLMGLVEVTPKGEIVTHFP

SeqID 217

MTETVEDKVSHSITGLDILKGIVAAGAVISGTATQTKVFTNESAVLEKTVEKTDALATNDTVVLGTISTSNSASSTLSASE
SASTSASESASTSASTSASTSASESASTSASTSISASSTVVGSTAAATEATAKKVEEDRKKPASDYVASVTNVNLSYAKRR
KRSVDSIEQLLASIKNAAVFSGNTIVNGAPAINASLNIKAKSETKVYTGEGVDSVYRVPIYYKLKVTNDGSKLFTTYTVVNP
KTNDLGNISSMRPGYSIYNSGTSTQTMLTGSDLGKPSGVKNYITDKNGRQVLSYNTSTMTTQSGSYTWNGAQMNGFAKKG

SeqID 220

MKKNRVFATAGLVLLAAGVLAACSSSSKSSDSSAPKAYGYVYTADPETLDYLISKNSTTVVTSNGIDGLFTNDNYGNLAPAVA
EDWEVSKDGLTYTYKIRKGVKWFSTSDGEEYAEVTAKDFVNGLKHAADKKSEAMYLENSVKGLADYLSGTSTDFSTVGKAVD
DYTLQYTLNQPEPFWNSKLTYSIFWPLNEEFETSKGSDFAKPTDPTSLLYNGPFLLKGLTAKSSVEFVKNEQYWDKENVHLD
INLAYYDGSQDESLEARNFTSGAYSARLYPTSSNYSKVAEEYKDNIIYTTQSGSGIAGLVNIDRQSYNYTSKTTDSEKVAATK
ALLNKDFRQALNFALDRSAYSQAINGKDGAALAVRNLFVKPDPFVSAGEKTFGDLVAAQLPAYGDEWKGVNADGQDGLFNADK
AKAEFAKAKKALEADGVQFPPIHLDPVVDQASKNYISRIQSFQSVETVLGVENVVVDIQQMTSDEFNLITYYANASSEDWDV
SGGVSWGPDYQDPSTYLDILKTTSSSETTKTYLGFDPNPNPSVQVGLKEYDKLVDEAARETSDLNVRYEKYAAAQAWLTDS
FIPAMASSGAAPVLSRIVPFTGASAQTGSKGSDVYFYKLSQDKVVTKEEYKAREKWLKEKAESNEKAQKELASHVK

SeqID 221

MEINVSKLRTDLPQGVQPYRQVHAHSTGNPHSTVQNEADYHWRKDPGLGFFSHIVGNGCIMQVGPVDNGAWDVGGGWNAAET
AAVELIESHSTKEEFMTDYRLYIELLRNLADEAGLPKTLDTGSLAGIKTHEYCTNNQPNHSDHVPYPYLAKWGISREQFKH
DIENGLTIETGWQKNDTGYWYVHSDGSYPKDKFEKINGTWYFDSGYMLADRWRKHTDGNWYWFDSNGEMATGWKKIADKW
YFNEEGAMKTGWVKYKDTWYLLDAKEGAMVSNAFIQSADGTGWYLLKPDGTLADKPEFTVEPDGLITVK

SeqID 222

MKKKYWTLAILFFCLFNNSVTAQEI PKNL DGNITHTQTSESPSESEDEKQVDYSNKNQEEVDQNKFRIDKTELFTVTTDKHLE
KNCKCLELEPQINNDIVNSENNLLGEDNLDNLIKENVSHLDNRGGNIEHDKDNLESSIVRKYEWDIDKVTGGGESYKLYSKS
NSKVSIAILDGVDLQNTGLLKNLSNHSKNYVPNKGYLGKEEGEGEIIISDIQDRLGHGTAVVAQIVGDDNINGVNPVNIN
RIFGKSSASPDWIVKAI FDAVDDGNDI INLSTGQYLMIDGEYEDGTNDFETFLKYKKAIDYANQKGVIIAALGNDSLNVS
SDLLKLISRRKKVRKPLVVDVPSYFSSISVGGIDRLGNLSDFSNGKSDAIYAPAGSTLSLSELGLNNFINAEKYKEDWIF
SATLGGYTYLYGNSFAAPKVSGALAMIDKYKLKDQPYNYMFVKKFWKKHYQ

SeqID 223

MKKDELFEFGFYLIKSAADLRQTRAGKNYLAFTFQDDSGEIDGKLWDAQPHNIEAFTAGKVVMKGRREVYNNTFPQVNQITLRLP
QAGEPNDPADFKVKS PVDVKEIRDYMSQMI FKIE NPVWQRIVRNLYTKYDKEFYSYPAAKTNHAFETGLAYHTATMVR
LADA ISEVYPQLNKSLLYAGIMLHDLAKVIELTGPDQTEYTVRGNNLGHIALIDSEITKTVMELGIDDTKEEVLLRHVILSHHGL
BYGSPVRPRIMEAEIIHMIDNLDASMMMTALALVDKGEMTNKIFAMDNRSFYKPDLD

SeqID 224

VTILGKDTVQQSAGGESVTQEATPEYKLENTPGGDKGGNTGSSDANANEGGGSQAGGSHTGSQNSAQSQASKOLATEKESAK
NAIEKAAKDQDEIKGAPLSDKEKAEELLARVEAEKQAALKEIENAKTMEDVKEAETIGVQALAMVTPKRPVAPNAAPKTTS
PQATAGTMQDVTYQSPAGKQLPNTGSASSAALASGLLVATSGFALLGRKTRRRK

SeqID 225

MNADDVTIYDVAREAGVSMATVSRVVNGNKNVKENTRKKVLEVIDRLDYPNAVARGLASKKTTTVGVVIPNITNGYFSSLA
KGIDDIAEMYKYNIVLANSDEDENEKEVSVVNTLFSKQVDGIIYMGYHLTDKIRSEFSRSRTPIVLAGTVDVHQLPSVNIDYK
QATIDAVSYLAKENERIAFVSGPLVDDINGKVRLVGKETLKKAGITYSEGLVFESKYSYDDGYALAEERLISSNATAAVVTGD
ELAAGVLNGLADKGVSPEDFEIITSDDSQISRFTRPNLTTIAQPLYDLGAISMRMLTKIMHKEELEEREVLLPHGLTERSS
TKR

SeqID 226

MKKKLVFPNLFWWGAASSGPQTEGQYGVHENVMDYWFKTHPEDFFDNVGPLVASNFFHTYTEDFHLMEIGVNSFRTSIQWS
RLIKNLETGEPDPKGIAFYNAIEEAKKNQMDLVMNLHHFDLPVELLQKYGGWESKHVVELFVKFAKTAFTCFGDKVHYWTF
NEPMVIEAGYLYAFHYPNLKGKGKEAVQVIYNLNLASAKVIQLYRSLELDGKIGIILNLTAPYPRSNSPEDLEASRFTDDFF
NKVFLNPAVKGTFFPERLVKQLERDGVLSHTEKELQLMKSNTVDLGVNYHPRVQAQANPEEYQTPWMPDQYFKEYEWLER
RMNPYRGWEIFPKAIYDIAMIVKEEYGNIPWFISENGMGVENEARFIDENGVIDDVYRIEFYEEHLRWLHKAIEEGSHCFGYH
AWTAFDCWSWNNAYKNRYGFI SVDLETQKRTIKSSGRWYRKVSDNNGFEVEIEE

SeqID 227

VENLTFYKRYVYLTRPRLLELLAVVTIVFCVLVFFLNIPGKGVKLKLDNGTIVYDGSILVRGKMNGQGTITFQNGDQYTGGFN
NGAFNGKGTFSQKEGWTYEGDFVNGQAEKGKGLTTEQEVVYEGTFKQGVFQQK

SeqID 228

MLNKIRDYLDFAGLQYRNPDKAGAEREKMLAFRHKQGEARKVFTELAKAFQASHPEWQLQOTSQWMNQAQRLRPFWVYLQ
RDQVTEPMMALRLYGTSTDFGISLEVSFIERKKDEQTLGKQAKVLDIPTVKGIYYLTSNGQSQRWEANEKRRRTLREKVR
SQEVRKVLVKVDVPMTESSSEEEIVEGLLSYSKILPYLATRK

SeqID 229

MVQNSCWQSKSHKVKAFITLLESLLALIVISGGLLLFQAMSQLLISEVRYQQQSEQKEWLLFVDQLEVELDRSQFEKVEGNRLY
MKQDGKDIAIGKSKSDDFRKTNARGRGYQPMVYGLKSVRITEDNQLVRFHFQFQGLEREFIYRVEKEKS

SeqID 230

MKKMMTFLKKAKVKAFITLVEMLVLLIIISVLFLFVFNLTQKQEA VNDKGKAAVVKVVSQAELYSLEKNEDASLRKLQADGR
ITEEQAKAYKEYNDKNGGANRKVND

SeqID 231

MTSKVRKAVIPAAGLGRFLPATKALAKEMPLIVDKPTIQFIVEEALKSGIEDILVVTGKSKRSIEDHFDNSNFELEYNLKEKG
KTDLLKLVDKTTDMRLHFIRQTHPRGLGDAVLQAKAFVGNPEFVVMGLGDDLMIDITDEKAVPLTKQLMDDYERHASTIAVMPV
PHDEVSAYGVIAPQGEKDGLYSVETFEVKPAPEDAPSDLAIGRYLLTPBIFEILEKQAPGAGNEIQLTDAIDTLNKTQRFV
AREFGARYDVGDKFGFMKTSIDYALKHPQVKDDLKNYLIQLGKELTEKE

SeqID 232

MQNQLNELKRKMLEFFQKQKNKKSARPGKKGSSTKKSSTLTKSVIFPAILLSSIKALFNLLFVLGFLGGLGAGIALGYGVAI
FDKVRVPQTEELVNQVKDISSISEITYSDGTVIASIESDLLRTSISSEQISENLKKAIATEDEHFKEHKGVPKAVIRATLC
KFVGLGSSSGSTLTQQLIKQVVGDAPTLARKAAEIVDALALERAMNKDEILTTYLNVAFPGRNNKGQNIAGARQAAEGIFC
VDASQLTVPQAAFLAGLPQSPITYSPYENTGELKSDDELEIGLRRRAKAVLYSMYRTGALSKEYSQYKDYDLKQDFLPSGTVI
GISRDYLYFTTLAEAEQERMYDYLAQRDNVSAKELKNEATQKFYRDLAAKEIENGKYKITTTIDQKIHSAQSAVADYGYLLDI
GTGRVEVGNVLMNDQTGAILGFVGGGRNYQENQNNHAFDTRKSPASTTKPLLAYGIAIDQGLMGSETILSNYPTNFANGNPIMY
ANSKGTGMMTLGEALNYSWNIPAYWYTYRMLREKGVVDVKGYMEKMGYIEIPEYGIESLPMGGGIEVTVAQHTNGYQTLANNGVYE
QKHVISKIEAADGRVVVEYQDKPVQVYSKATATIMQGLLREVLSSRVTTTFKSNLTSNLPTLANADWIGKTGTNTQDENMWLM
LSTPRLTLGGWIGHDDNHSLSRRAGYSNNSNYMAHLVNAIQASPSIWGNERFALDPSVVKSEVLKSTGQKPEKVSVEGKEVE
VTGSTVTSYWANKSGAPATSYRFAIGGSDADYQNAWSSIVGSLPTPSSSSSSSSSSSDSSNSSTTRPSSSRARR

SeqID 233

MSSKFMKSAAVLGTATLASLLLVACGSKTADKPADSGSSEVKELTVYVDEGYKSYIEEVAKAYEKEAGVKVTLKTGDALGGLI
KLSLDNQSGNVDPVMMAPYDRVGLSDGQSEVKLSGAKTDDTTKSLVTAANGKVYGAPAVIESLVMYNNKDLVKDAPKTE
ADLENLAKDSKYAFAGEDGKTTAFLADWTNFYTYGLLAGNGAYVFGQNGKDAKDIGLANDGSIVGINYAKSWYKWPQGMQI
TEGAGNLIQTQFQEGKTAALIDGPWKAQAFKDAKVNYGVATIPTLPNGKEYAFAFGGKAWVIPAQVKNLEASQKFDVFLVATE
QQKVLYDKTNEIPANTEARSYAEGKNDELTTAVIKQFKNTQPLPNISQMSAVWDPAKNMLFDAVSGQKDAKTAANDAVTLIKE
TIKQKFGE

SeqID 234

MIDKVVRLNLLTFFFCMTKIIIFLTTILVKKKKICYNEFKLRNRKQKGVIMWVLGFILFMIFYSNNSKKIKKLENKIKRLI
RKEKGNAEMSRLQEMIGKEPIITGVYIGPDNWEVVDVDEEWVLLRRVDNTGKEKFKLQRIEDIQTVEFDGE

SeqID 235

MILSKNREDGLRKFAFNIRLNTLRLNLHLGFGHYGGSLSIVEVLAVLYGEIMPMTPEIFAARDRDYFILSKGHGGPALYSTLY
LNGFFDKEFLYSLNTNGTKLPSPHPRNLTPGIDMTTGSLSGQGISVATGLAYGQIRKSPFYTYAIVGDGELNEGQCWEAIQFI
SHQQLSNLIVFDDNKKQLDGFTKDICNPGDFVEKFSAFGFESIRVKGSDIREIYEGIVQLKQSNSSPKCIVLDTIKGQGV
ELEEMKSNHHLRPTVEEKQMLTTSVVERLSQELEETE

SeqID 236

MKKTILSLTTAAVILAAAYVPNEPILADTPSSEVIKETKVGSIQONNIKYKVLTVEGNIGTVQVGNVTPVEFEAGQDGKPI
TIPTKITVGDKVFTVTEVASQAFSYPDETGRIVYYPSSITIPSSIKKIQKKGPHGSKAKTIIIFDKGSQLEKIEDRAFDSEI
EEIELPASLEYIGTSAFSFSQKLKDLTFSSSSKLELISHEAFANLSNLEKLTLPKSVKTLGSLNLFRLTTLKHVDVEEGNESI
ASVDGVLFSKDKTQLIYYPSSQKNDESYPKETKELASYSFNKNSYLKKLELNEGLEKIGTFAFADAIKLEEISLPSNLETII
RLAFYGNLELKLILPDNVKNFGKHVMNGLPKLKSLTIGNNINSLPSFFLSGVLDLSLKEIHIKNKSTEFVSKDTPFAIPETVI
FYVTSEHIKDVLKSNLSTSDNDIIVEKVDNIKQETDVAKPKKNSNQGVVGVKDKGLWYYLNEGSMATGWVKDKGLWYYLNE
GSMATGWVKDKGLWYYLNEGSMATGWVKDKGLWYYLNEGSMATGWVKDKGLWYYLNEGSMATGWVKDKGLWYYLNEGSM
ATGWVTVSGKWWYTYNSGDLVNTTTPDGYRVNANGEWVG

SeqID 237

MVRFTGLSLKQTQAIEVLKGHISLPDVEVAVTQSDQASISIEGEGHYQLTYRKPHQLYRALSLLVTVLAEADKVEIEEQAAJ
EDLAYMVDCSRNAVNLVASAKQMIETLALMGYSTFELYMEDTYQIEGQPYFGYFRGAYSAAELQEIEAYAQQFDVTFVPCIQT
LAHLSAFVKWGVKEVQELRDVEDILLIGEEKVYDLIDGMFATLSKLKTRKVNIGMDEAHLVGLGRYLILNGVVDRLMLCQHI
ERVLDIADKYGFHCQWMSDMFFKLMSADGQYDRDVEIPEETRVYLDRLKDRVTLVYWDYYQDSEEKYNRNRNHHKISHDLAI
AGGAWKWIGFTPHNHFSRLVAIEANKACRANQIKEVITGVGDNGGETAQFSILPSLQIWAELSRYNDLDGLSAHFKTNTGLJ
VEDFMQIDLANLLPDLPGNLSGINPNRYVVFYQDILCPILDQHMTPEQDKPHFAQAAETLANIKEKAGNYAYLFETQAQLNAII
SSKVDVGRIRIQAYQADDKESLQQIARQELPELRSQIEDFHALFSHQWLKENKVFLDVTVDIRMGGLLQRIKRAESRIEVLJ
QLDRIDELEVEILPFTDFYADKDFAAATTANQWHTIATASTIYTT

SeqID 238

MSNSFVKLLVSQFLANLADIFFRVTIIANIYIISKSVIATSLVPILIGISSFVASLLVPLVTKRLALNRVLSLSQFGKTILLJ
ILVGMFTVMQSVAPLVTYLFFVAISILDGFAAPVSYAIVPRYATDLGKANSALSMTEAVQLIGWGLGGLLFATIGLLPTTCJ
NLVLYIISFLLMLFLPNAEVEVLESETNLEILLKGWKLVARNPRLRFVSANLLEIFSNTIIVSSIIILVFTVTELLNKTESYWC
YSNTAYSIGIIISGLIAFRLSEKFLAAKWEPQLFTPNLTKIQNPCLSLDPGWFLFSPNGCFLLDKKEFFLYGISVEKNTRKRI
THMNSLPNHHFQNKSFYQLSFDGGHLTQYGGILFFQELFSQLLKERISKYLVNTDQRRYCRYSDSDILVQFLQLLTGYGTY
YACKELSADAYFPKLLLEGGQLASQPTLSRFLSRDEETVHSLRCLNLELVEFFLQFHQLNQLIVDIDSTHTFTTYGKQEVYAT
AHYRAHYHPLYAFEGKTYCFNAQLRPGNRYCSEADSFITPVLERFNQLLFRMDSGFATPKLYDLIEKTQGYLYIKLKNJ
VLSRLGDLSLPCPDQEDTLPHSAYSETLYQAGSWSHKRRVCQFSERKEGNLFYDVISLVNTMTSGTSQDQFQLYRGRGQAI
NFIKEMKEGFFGDKTDSSTLIKNEVRMMMSCLAYNLVFLKHLAGGDFQTLTIKFRHLFLHVVGKCVRTGRKQLLLKSSLYJ
YSELFSAIYSRIRKVNLLNLPVPYEPPIRRKASLMMH

SeqID 239

SeqID 240

SeqID 241

SeqID 242

SeqID 243

SeqID 244

SeqID 245

SeqID 246

SeqID 247

SeqID 248

SeqID 249

SeqID 250

SeqID 251

RNCLSTWKSSSNYHTEIKRGTVRQCLGKGRFKEVYSADYAQQSYENNKRKRSVKKSSSLTKELKEKILHYHNQKFSPEMMVMAK
 VNVGISTIIYYWIHHGKLGSLKQDILLYPRKGKALKKQASTNFKPAGQSIEQRPEAINLRLENGHYEIDTVLLTRSKNYCLIVL
 DRKSRHQIIRLIPNKSAEVVNQALKLILKQHKILSITADNGTEFNRLFDIFSEEHTIYAHYPASWERTNENHNRLIRR

SeqID 252

PVMTISSPTMKNMDLSTKASPSQPLQGKHGMIWSGK

SeqID 253

TSSIRIHRKSSPNWTTTPHLALSAETN

SeqID 254

YFLPHKYARESLSLPSTNKILHRKQGS

SeqID 255

AAFKKDQINERVEKLGKLPITINYNGKSEVIDSKEKLQELMNKAVKDEVAQI

SeqID 256

AYAHSKRSAGSGRAGGRQCLCQCQNKCRDFKY

SeqID 257

HGRPHYHKPHQPHHHGFPQQSYNLLPPKHKPTLCVRR

SeqID 258

KGKILLPLRLTTQRWQRKIRPDSRKSANNKANLDFHNSRCKSSLSDEAPNLHKNPALLVHSLSRVIAVLLELSPLQAYSIVKI
SPKEDDLIHDDAILVRFGILEVHDSPLYELLLYHTHSYRFSCSIYLS

SeqID 259

FTVSHVFLLYLSFNPRPKSMSLSFTSSKLLRPRFRFTFIISADFSVKSCTVLIPARFKQLYERTDKSSSSIVRSKIRSSDSV
ASFITSVDLAISVRFVNKSRCSVKIRAESPKASSGIIVPFVKISRVLNLSKPSLLPTRAGST

SeqID 260

LVCMKNGKCYKERNNCCH

SeqID 261

FHYLSKYFLVSAITTGDKTKRAIKFGRAIKALTISAIITQISNSINPPNKTMTSTKTTR

SeqID 262

GKKVFIKYPLSRVSSKTGPMITGRTKDKIVDKKVGCPFEKSTVKYSS

SeqID 263

SSPVFPKLVMSGANKPRERRNFPFSSKMSFHLTFVL

SeqID 264

YLTSFSVPKIASISKVKLTRYWRSSPWGAFGLREBPPPKKLEKISSKPPKPPAPLKPPKPPAPPKPLAPAAPYWS

SeqID 265

QSWRPPIPDSCYTOEKLTIPIKRRKDIKDFYHNSIQRHKNSHKSHLLDSYRLIITRLAEIVHENKILIVLILYVTNIPSRRI
YEVNRV

SeqID 266

LFRFYRVIVLYRGWHIYLLILVNLQYVQNVFRKDRFLVRGAQPFFHGERSAGHLVLPYVL

SeqID 267

ITHPPLNPEHFVSRVFSSSLGLKSYQPKDDRFLRKPSDSRHPESGNSGKWQVLNSPLVIVK

SeqID 268

TLAKAVGLMYSPPIPPKPFLGRITTDSSSI

SeqID 269

PGSPFSEISGAGFFGVAKRIFPRPPRPWPATINSCPCSIKSVKTLPVASARTVPCGTRTLRSSAPRPCIPLVIPFSPESAL

SeqID 270

INSLTLATSLSKRRAPRKASKASPRMVSRLRPPDFSSPLPNLINWSNWQSRAPAKLSSRTIIARSFDRSPSGFLGYFLYRY
EINNCRITASPKNSKRSLCEIFKRCSLA

SeqID 271

PIGKRNCKAECQSHHLEKQKTFQSRKTKRYGASPEPRYRESRKPRLSQ

SeqID 272

QPLGHSKAEHEHETICSHTFDNHTTETIPNQVKGRDMTSSETLPFPKSNQNGKAKQIP

SeqID 273

PCSLPDYGLVGSYHSCHYQSNDRFLSHGNWRTLLYSWSWILCQEXTLFPDHLASLYPSCVRTSIHRYCLLHVKKLRNSIS
TFFFTHDIDKVLVQAHIIISQFWMKRTYQHIFFLGCNNLIVHCC

SeqID 274

RVKDNHLDKLVKALLKRRSSTQYYIHQLLRKMIRLYGHQQLHNNSEILVYSDYGHVDLLLLLETNKIPVY

SeqID 275

QVIKIDIATTNKTESVKSQSEREKKRLTSSNILKVRGRPI

SeqID 276

AFKSSKVPSLDPSSSTKTYSISVSKSGSKASRA

SeqID 277

DKTDPLARKLPDKSKPSTSFTCKSLSPVNMASLTSAPKSKTKASLGICSPADKRMTSPSTNSSGLRATS

SeqID 278

LCRLQTQARPRGSVTNLTKQNKVYRYLNYLRQTQLSAM

SeqID 279

CIQSIGNEGQCKGNSCYVGKEIHLAPISDIVGHKGKEEGDDGNDGRQFYFLAHLVGSAFLRSFPLLYSKGINEEGDGIGND
GRLISKDIINSTGQNGINNTKVISPFA

SeqID 280

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SeqID 281

ISTGVPTCSMYPLLKTAILSDKVKASS

SeqID 282

LSTMSSIKSILCSLPHTTIFSKSAISPKRGSTAI

SeqID 283

SCSYSSTNSKACSIIVGLSKPTIFICVTPISAAKAISSASRPANSSTFKVCVSKIISSNLVFYLLLYQKRGGAPNFSVSPPLF
NRELFICYLPILPISYSTVRDRDLH

SeqID 284

VTSCIVPAVACGALVVLGAALGATGLLGTVTMAMACTPIVSASFTSSIVFAFSISLRAACFSASTLAKSSAFSLSESGAPLIS
SCLSLAAFSMAFLADSFVANLEACD

SeqID 285

YSPFNHSILIRKTTKIINPNPKAPRMNWRSKVWSNQPVNISTNHTKSDRPIKK

SeqID 286

DYFKFRTTFTFRFSTVKPYSANTFGAGAEAPKVSIPRTAPSRPTYLYQF

SeqID 287

RGRRLCVARIKAPRLVIKPKRTIDPPTKDRYSPLSATSLSPKSPISIIFPAKMDKNPKRLNSKVIFFNASVT

SeqID 288

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SeqID 289

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ATATTTATGCAGAT

SeqID 290

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SeqID 291

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SeqID 292

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SeqID 293

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SeqID 294

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SeqID 295

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SeqID 296

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SeqID 297

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SeqID 298

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SeqID 299

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SeqID 300

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SeqID 301

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SeqID 302

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SeqID 303

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SeqID 304

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SeqID 305

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SeqID 306

SeqID 307

SeqID 308

SeqID 309

SeqID 310

SeqID 311

SeqID 312

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KIVGESYAKSTKKRHTITVALVNLNLIKNEYLNKIVESTSESQQLIMESRSKVD EAVSKFEKDSPSSSSSDSSTKPEXX
XX
XX
SKKAEATRLEKIKTRDKKABEEAKRKAABEDKVKEKPAEQPQAPAPKAEPAPAPKPNPAEQPKAEKPADQQAEDYARR.
EEYVNRLTQQQPPKTEKPAQPSTPKTGWKQENGMYFYNTDGSMTAGWLQNGSWYYLNSNGAMATGWLQNGSWYYLNG;
MATGWLQNGSWYYLNGNSMATGWLQYNGSWYYLNGNSMATGWLQYNGSWYYLNGMATGWLQYNGSWYYLNGMATGWLQYNGSWYYLNG;
SQWFKVSDKWYYVNGSGALAVNTMDGYGVNANGEWVN

XXLKLSPMWKLRSLTSKEAKPLNEGTIRQ
AKAEVESKKAETRLEKIKTDRKKAEEEAARRAAEEDKVKEKPAEQPPAPAPQPEKPTEEPENVPVAPKPEKPAEQPKPEKP
AEQPKPEKPAEQPKAEKTDQQAAEEDYARRSEEEYNRLTQQQPQKPEQPAPAPKIGWKQENGMMWYFYNTDGSMTGWLQYNGS
WYYLNANGSMATGWVKDGDWTWYLEASGAMKASQWFKVSDKWYVNGSGALAVNNTVDGYGVNANGEWVN

[illegible][illegible]

MFASKSERKVHYSIRKFSIGVASVASVSLVMGVSVVHATEKEVTTQVPTYNSMAKTEHRKAAKQVVDDEYIEKMLREIQLDRRKE
TQNFAPNMKLSAIKTEYLYGLKEKSEALPSPSEALPSEVKAKLDAAFEQFKDITLKLGEKVAEAEKKVAAEAKKAKAQKEEI
RRNYPTITITYKTLDLIEIAESDVEVKKAELELLKEEAKTRNKDITIKQAKAKVESKKAATKLEIKTRDKKAEFEAXXXXXXXXXX
XX
ATRLKIKITDRKKAEEAKRRAAEEDKVKEKPAEQPPAPAPQPEKPTTEEPENPAPAPKEKPAEQPKAEKPADQQAEEEDYARF
SEEBYNRLTQQQPPKTEKPAQSPSTPKTLGWKQENGMWYFYNTDGSMTATGWLQNNGSWYYLNSNGAMATGWLQYNGSWYYLNANG
DMATGWLQNNGSWYYLNGDMATGWLQYNGSWYYLNGDMATGWLQNNGSWYYLNGDMATGWLQYNGSWYYLNGDMATGWLQYNGSWYYLNG
ASQWFKVSKWYYVNGSGALAVNTTVDGYGVNANGAWN

MFASKSERKVHYSIRKFSIGVASVAVASLFLGGVVHAEGVRSENTPKVTS SSGDEVDEYIKKMLSEIQLDKRKHTHNFALNLKI
SRIKTEYLKLVNVLEEKSKAELTSKTKKEVDAAFEKFKKDTLKLGEKVAAEQKKVVEAKKAKDQKEEDHRNYPNTYKTI
ELEIAESDVKVKEAELELLKEEAKTRNEDTINQAKAKVKSQAEATRLKKIKTDREQAEATRLENIKTDREKAEAEAKRKAEX
XXLEIAESDVKVKEAELELVKEEAKESRNEEKVKQAF
AKVESQAEATRLKIKTDRKKAEEEEAKRKAEEEDKVEKPAEQPPAPAPQPEKPAAPAKPENPAEQPAEKPADQAEED
ARRSEEEYNRLTQQQPPKTEKPAQPSTPKTGWKQENGMMWYFYNTDGS MATGWLQYNGSWYYL NANGDMATGWLQNGSWYYL
ANGDMATGWLQNGSWYYL NANGDMATGWLQNGSWYYL NANGDMATGWLQNGSWYYL NANGDMATGWLQNGSWYYL
GALAVNTTVDG YGVNANGEWVN

MFASKSERKVHYSIRKFSIGVASVAVASLFGMSVVHATEKEVTTQVATSSNKANKSQTEHMKAAKQVDEYIKKKLQLDRRKH
QNVGLLTKLGVIKTEYHLGLSVSKKKSAELPSEIKAKLDAAFEQFKDITLPTPEGKKVAEAEKKVEEAKKKAEDQEKDLRN
YPTNTYKTLLELDIAESDVEVKAELELVKGSYRNLETRKKLIKQSEKLRIKKLMLQXXXXXXXXXXXXXXXXXXXXXXXXXX
XXXXXXXXXXXXXXXXXXXXXXXXXVQNGMWYFYNTDGSMTATGWQLQNGSSWYYLNSNGMATGWLQNGSSWYYLNSNGMATGI
QYNGSWYYLNSNGDMATGWQYNGSWYYLNSNGDMATGWQYNGSWYYLNSNGDMATGWQYNGSWYYLNSNGDMATGWQY
GSWYYLNSNGAMVTGWQLQNGSWYYLNSNGSMATDWDGDTWYYLEASGAMKASQWFKVSDKWWYVNGSGALAVNTTVDSYI
VNANGSEWVN

Note: "X" represents undefined/missing nucleotides or amino acids due to unavailable sequencing information.